



MR 307376

RECEIVED  
U.S. POSTAL SERVICE

October 5, 2007

2007 OCT 10 AM 9:59

**VIA FEDERAL EXPRESS**

TSCA Confidential Business Information Center (7407M)  
 EPA East – Room 6428 Attn: Section 8(e) Submission  
 U.S. Environmental Protection Agency  
 1200 Pennsylvania Avenue, N.W.  
 Washington, D.C. 20460-0001

Company Sanitized

Dear Sir/Madam:

This letter serves as a Section 8(e) submission concerning certain Baby Einstein Discover & Play Color Blocks (“Color Blocks”) manufactured and distributed by Kids II, Inc. The Color Blocks consist of four soft textured blocks in different colors. Testing of units in inventory in the U.S. revealed that a silk-screened image on one of the soft blocks had total lead levels slightly exceeding the lead-containing paint standard of 0.06% (or 600 mg/kg) established by the U.S. Consumer Product Safety Commission (“CPSC”). Samples tested complied with the soluble lead limit of 90 ppm established by ASTM, the European Standard EN71 and the ISO standard 8124. Nonetheless, we voluntarily reported this matter to the CPSC and on October 4, 2007 announced, in joint cooperation with that Agency, a voluntary recall of 35,000 units of the block that was found to have levels of lead that exceeded CPSC’s standards. A copy of the press release is enclosed for your information.

Although we do not concede that we are subject to the reporting obligations pursuant to Section 8(e) of the Toxic Substances Control Act (“TSCA”), or that the product poses a “substantial risk” pursuant to TSCA, we are submitting this information to the EPA as a precautionary measure to bring this matter to your attention.

Should you require additional information, please let me know.

Very truly yours,

KIDS II, INC.

J. Dwaine Clarke  
Chief Financial Officer



8 E H Q - 0 7 - 1 6 9 7 4

Enclosure

[www.kidsii.com](http://www.kidsii.com)



Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

TABLE OF CONTENTS

	<u>Page</u>
<b>ABSTRACT</b> .....	5
<b>GLP COMPLIANCE STATEMENT</b> .....	6
<b>APPROVAL SIGNATURES</b> .....	7
<b>STUDY INFORMATION</b> .....	8
<b>I. OBJECTIVE</b> .....	9
<b>II. MATERIALS AND METHODS</b> .....	9
A. Test Substance .....	9
B. Test Atmosphere .....	9
1. Inhalation Exposure .....	9
2. Test Atmosphere Generation .....	10
3. Test Atmosphere Concentration .....	11
C. Intra-assay Control Substance Administration .....	12
D. Animals and Animal Care .....	12
1. Animals .....	12
2. Feed and Water .....	12
3. Environment .....	12
4. Assignment to Groups .....	13
E. Experimental Design .....	13
F. Mortality/Moribundity Observations .....	14
G. Clinical Observations .....	14
H. Body Weight Measurements .....	15
I. Feed Consumption .....	15
J. Necropsy .....	15
K. Clinical Pathology .....	15
L. Lymphoid Organ Cellularity and Viability .....	16
M. Natural Killer Cell Assay .....	16
N. Antibody-Forming Cell Assay .....	17
O. Phenotype Analysis .....	17
P. Statistics .....	18
Q. Deviations .....	18
R. Archives .....	18
<b>III. RESULTS</b> .....	19
A. Test Atmosphere .....	19
1. Exposure Concentrations .....	19
2. Exposure Atmosphere Homogeneity .....	19
3. Exposure Chamber Conditions .....	19

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

TABLE OF CONTENTS (cont.)

	<u>Page</u>
B. Mortality .....	20
C. Clinical Observations .....	20
D. Body Weights and Feed Consumption .....	20
E. Gross Necropsy .....	20
F. Organ Weights .....	21
G. Clinical Pathology .....	21
H. Lymphoid Organ Cellularity and Viability .....	22
I. Splenic Natural Killer Cell Activity .....	22
J. Antibody-Forming Cell Assay .....	22
K. Spleen Lymphocyte Distribution .....	22
 IV. DISCUSSION .....	23
 V. CONCLUSION .....	24
 VI. TABLES .....	25
Table 1 Abbreviations .....	26
Table 2 Summary of Inhalation Exposure Concentrations Determined by Gas Chromotography .....	27
Table 3 Summary of Test Atmosphere Homogeneity .....	28
Table 4 Summary of Mortality .....	29
Table 5 Summary of Incidence of Clinical Observations .....	30
Table 6 Body Weight Summary Data .....	31
Table 7 Body Weight Gain Summary Data .....	35
Table 8 Weekly Feed Consumption Summary Data .....	37
Table 9 Summary of Gross Necropsy Observations .....	41
Table 10 Organ Weight Summary Data .....	42
Table 11 Relative Organ Weight Summary Data .....	44
Table 12 Hematology Summary Data .....	46
Table 13 Clinical Chemistry Summary Data .....	50
Table 14 Lymphoid Organ Cellularity and Viability Summary Data .....	52
Table 15 Natural Killer Cell Activity Summary Data .....	54
Table 16 Antibody Forming Cell Assay Summary Data .....	56
Table 17 Spleen Lymphocyte Distribution Summary Data .....	58
 VII. APPENDICES .....	60
Appendix A - Exposure Data .....	61
Daily Inhalation Exposure Concentrations Determined by Gas Chromotography .....	62
Daily Inhalation Exposure Chamber Conditions .....	66

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

---

TABLE OF CONTENTS (cont.)

	<u>Page</u>
Appendix B - Individual Animal Data .....	71
Clinical Observations .....	72
Body Weight .....	96
Body Weight Gain .....	108
Weekly Feed Consumption .....	120
Necropsy Observations .....	132
Organ Weight .....	136
Relative Organ Weight .....	140
Hematology .....	144
Red Blood Cell Morphology and Platelet Observations .....	152
Clinical Chemistry .....	158
Lymphoid Organ Cellularity and Viability .....	162
Natural Killer Cell Activity .....	166
Antibody-Forming Cell Assay .....	170
Spleen Lymphocyte Distribution .....	174
Appendix C - Clinical Pathology Methods .....	184
Appendix D - Protocol Deviation .....	187

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

---

**ABSTRACT**

A test atmosphere of hexamethyldisiloxane (HMDS), Dow Corning<sup>®</sup> QS-10 was generated at the target concentrations of 50, 200, 1000 and 5000 ppm and administered for six hours per day for a period of 28 consecutive days by whole-body inhalation exposure to groups of thirty male and thirty female Fisher 344 rats. Additional groups of fifty male and fifty female rats were similarly exposed to filtered air, with twenty of these rats per sex used for intra-assay controls. The mean concentration of HMDS vapor in the exposure atmosphere was  $50 \pm 1.5$  ppm,  $201 \pm 8.4$  ppm,  $1008 \pm 61.2$  ppm and  $4978 \pm 145.9$  ppm for the 50, 200, 1000 and 5000 ppm target concentrations, respectively, as determined by a calibrated gas chromatograph (GC). The concentration of HMDS in the 0 ppm (filtered air) exposure chamber was below the level of detection.

Fischer 344 rats exposed via inhalation for 28 consecutive days to low, mid or high doses of HMDS had minimal signs of toxicity. Minimal toxicity was evidenced by no mortality, no clinical signs of toxicity, minimal changes in body weights or body weight gains, and increased organ weights for kidneys and livers (males) and livers (females) of high dose HMDS-exposed animals only. There were no alterations in splenic lymphocyte distribution, as determined by immunophenotyping, under exposure conditions which resulted in increased liver and kidney weights in exposed rats. Although there did not appear to be any effects which were concluded to be treatment-related in spleen or thymus cellularity, natural killer cell activity, or in the antibody-forming cell response, the deviation of the control values from the historical range noted in the Discussion (varying from 50% below to 200% above historical values), precludes meaningful interpretation of these results. These deviations in the control animals suggest that the immunologic function of the test animals may not have been "normal".

DC Study No. - 9027  
External No. - L08710-1

DC Report No. - 1999-I0000-47623  
Security - Internal

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

---

GLP COMPLIANCE STATEMENT

This study was conducted in accordance with U.S. Environmental Protection Agency (EPA) Good Laboratory Practice (GLP) Standards as set forth in the *Code of Federal Regulations* (40 CFR Part 792; TSCA) with the exception that reserve samples of the control substances were not retained and the intra-assay control substance dosing formulations were not analyzed, and the final report was not audited. Records pertaining to the characterization and stability of the bulk test substance were the responsibility of the Sponsor, and are maintained at the address indicated for the Sponsor. The raw data have been reviewed by the Study Director, who certifies that the information contained in this report represents an appropriate and accurate conclusion within the context of the study design and evaluation criteria.

Robert J. Sherwood 9/28/99  
Robert L. Sherwood, Ph.D. Date  
Study Director

DC Study No. - 9027  
External No. - L08710-1

DC Report No. - 1999-I0000-47623  
Security - Internal

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

---

APPROVAL SIGNATURES

This report consists of pages 1 through 188 including Tables 1 through 17 and Appendices A, B, C  
and D.

Robert L. Sherwood 1/28/99  
Robert L. Sherwood, Ph.D. Date  
Study Director  
Manager, Microbiology and Immunology Division  
Life Sciences Operation

David L. McCormick 6/7/99  
David L. McCormick, Ph.D., D.A.B.T. Date  
Director and Vice-President  
Life Sciences Operation

Leigh Ann Burns Naas 22 Oct 99  
Leigh Ann Burns Naas, Ph.D., D.A.B.T. Date  
Product Toxicologist  
Sponsor's Representative  
Dow Corning Corporation

DC Study No. - 9027  
External No. - L08710-1

DC Report No. - 1999-I0000-47623  
Security - Internal

**Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats**

---

**STUDY INFORMATION**

**Study Initiation Date:** July 6, 1998  
**Experimental Start Date:** July 27, 1998  
**Experimental Termination Date:** September 1, 1998  
**Study Completion Date:** September 28, 1999  
**Study Director:** Robert L. Sherwood, Ph.D.  
**Sponsor:** Dow Corning Corporation  
**Sponsor's Representative:** Leigh Ann Burns Naas, Ph.D., D.A.B.T.  
**Study Personnel:**  
Robert V. House, Ph.D., Senior Scientist  
James M. Gerhart, Ph.D., D.A.B.T., Study Toxicologist  
Narayanan Rajendran, Ph.D., Science Advisor, Aerosol  
Scientist  
Helen V. Ratajczak, Ph.D., Senior Immunologist  
Karen Hagen, Ph.D., University of Illinois at Chicago  
Jennifer Kozak, B.S., Laboratory Biologist  
Jim Dihu, B.S., Laboratory Biologist  
Ian Shorr, B.S., Laboratory Biologist  
J.B. Harder, D.V.M., Senior Clinical Veterinarian  
  
**Report Preparation:**  
Robert L. Sherwood, Ph.D., Study Director  
Narayanan Rajendran, Ph.D., Science Advisor  
William M. Mega, B.S., Research Biologist/Technical Editor

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous Whole-Body Inhalation Exposure in Fischer 344 Rats

---

**I. OBJECTIVE**

The objective of this study was to evaluate the potential of hexamethyldisiloxane (tested as Dow Corning® OS-10) to modulate the immune systems of male and female Fischer 344 rats when administered by whole-body inhalation for 6 hours/day, 7 days/week for 28 consecutive days.

**II. MATERIALS AND METHODS**

Table 1 contains a list of abbreviations and their respective definitions used in this report.

**A. Test Substance:**

Identification:	Hexamethyldisiloxane (HMDS)
	Dow Corning® OS-10
	CAS No. 107-46-0
Appearance:	colorless liquid
Odor:	slight odor
Specific Gravity:	0.76 @ 25°C
Boiling Point:	NA
Flash Point:	-3.00°C
Viscosity:	0.65 CST
Vapor Pressure:	42.20 mm Hg @ 25°C
Vapor Density:	1.25
Solubility in Water:	not determined
Volatile Content:	100.00%

The test substance, HMDS, Dow Corning® OS-10, Lot No. AA058087, was received June 23, 1998. The test substance was stored in its original container at room temperature (approximately 22°C). Records pertaining to the characterization of the bulk test substance were the responsibility of the Sponsor, and are maintained at the address indicated for the Sponsor. All remaining test substance will be returned to the Sponsor upon completion of all relevant studies.

**B. Test Atmosphere:**

1. **Inhalation Exposure:** Inhalation exposure of HMDS was conducted in five 2- m<sup>3</sup> stainless steel inhalation chambers (four test atmospheres and one filtered air control; intra-assay control rats were housed and exposed with filtered air control

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous Whole-Body Inhalation Exposure in Fischer 344 Rats

---

rats). Exposures were for a daily duration of 6 hours + T<sub>90</sub> (the time required to reach 90% of the target concentration), 7 days/week for a period of 28 days. Each chamber was operated at a nominal airflow of approximately 500 lpm to provide 15±2 air changes per hour which ensured a test atmosphere oxygen content (measured at least once in each exposure chamber on each day) in excess of 19%. Chamber airflow was monitored with a calibrated in-line orifice meter and recorded approximately once every 30 minutes during the exposure periods. The position of the cages within the chamber were rotated weekly within each chamber. The exposure chambers were maintained at a slight negative pressure relative to the room to prevent leakage of the test substance into the surrounding area.

2. **Test Atmosphere Generation:** Vapor test atmospheres of HDMS were generated by a flash evaporation technique. The vapor generation system consisted of a test substance reservoir (source container), evaporator (distillation column), and appropriate control and monitoring equipment for heating and liquid flow. Each morning prior to the start of exposures, appropriate quantities of the liquid test substance was dispensed into the source container and the source container was connected to a liquid pump and evaporator.

The evaporator consisted of a 30 cm long and 20 mm ID Hempel distillation column packed with 3 mm diameter glass beads. The column at its lower end was fitted into a 500 ml glass flask containing two side arms. A constant flow rate of liquid was introduced into the top of the column and through one side arm a countercurrent flow of carrier gas (nitrogen) was fed into the base of the column. The test substance was completely vaporized (no residual material was evident in the evaporators) and the carrier gas swept the test substance vapor into the exposure chamber through a teflon/ stainless steel transfer line. Through the second side arm a thermocouple was positioned with its active end located approximately 5 cm from the top of the glass beads in the distillation column. The temperature of the column was regulated using a thermostat-controlled heating tape. The column temperatures for individual vapor generation system were maintained in the range of 37-55°C.

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous Whole-Body Inhalation Exposure in Fischer 344 Rats

---

Each carrier gas line was fitted with a pressure relief valve to prevent the glass evaporator from being subject to dangerous pressures that might arise due to blockage of the transfer lines. Each exposure chamber had a single generator except for the high concentration chamber which had two generators and all the generators were contained in cabinets that had a negative pressure relative to the room.

3. **Test Atmosphere Concentration:** The HMDS concentration within each chamber was measured approximately once per hour during the 6-hour exposure period by gas chromatography (GC). An aliquot of the chamber atmosphere was injected directly into a calibrated GC. The GC was calibrated with known vapor concentrations of HDMS prepared in gas sampling bags. A calibration curve for the HDMS was prepared and the GC response of the test atmosphere samples was compared to the calibration curve to determine the concentration of HDMS within the chamber test atmosphere.

The GC was calibrated during the test atmosphere development phase of the study and calibration checks were performed on each exposure day prior to initiation of the daily exposure by analyzing one randomly selected calibration standard. When the GC response was not within  $\pm 10\%$  of the calibration curve, the GC was recalibrated prior to initiation of the next exposure.

Nominal concentrations were calculated daily by dividing the weight of the test substance consumed by the total airflow through the exposure chamber during the exposure period.

During the test atmosphere development phase of the study, the between-port variability (spatial homogeneity) of the test atmosphere was evaluated within the breathing zones of the animals. In addition, the within-port variation (temporal homogeneity) was determined from reference-port samples. An infrared spectrometer was used for these homogeneity measurements. Chamber exhaust was passed through activated carbon and HEPA filters before being discharged to the outside environment. Chamber temperature ( $^{\circ}\text{C}$ ) and relative humidity (%RH) were monitored with an electronic thermohygrometer (Cole-Parmer Co., Chicago, IL). The chamber airflow rate was monitored continuously with an

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous Whole-Body Inhalation Exposure in Fischer 344 Rats

---

orifice meter using a calibrated magnehelic differential pressure gauge (Dwyer Instruments, Inc., Michigan City, IN). The chamber oxygen concentration was measured during the exposure using a Servomex Analyzer Series 1400 oxygen analyzer (Servomex Co., Norwood, MA). Chamber temperature, relative humidity, oxygen concentration and airflow rate were recorded at approximately 30-minute intervals during the exposure.

- C. Intra-assay Control Substance Administration: Intra-assay control rats will be exposed concurrently with the filtered air control rats to filtered air. Animals in the AFC assay subgroup received an intraperitoneal injection of cyclophosphamide (25 mg/kg) for five consecutive days prior to scheduled euthanasia. Intra-assay control animals in the NK assay subgroup received an intravenous injection of anti-asialo GM1 antibody (0.175 ml of reconstituted antibody per rat) one day prior to euthanasia.
- D. Animals and Animal Care:
1. Animals: Male and female (nulliparous, non-pregnant) Fisher 344 (F344) rats, 48 days old, were received from Charles River Laboratories (Raleigh, NC) for use in this study. Rats were selected as an acceptable model for immunotoxicity testing. The animals were received on July 22, 1998 and the next day the body weights of a 10% sample ranged from 101 to 125 g (males) and 104 to 121 g (females). The animals were observed daily for mortality and moribundity and held in quarantine for approximately one week. At the end of the quarantine period the animals were given a physical examination to ensure their suitability for use in this study.
  2. Feed and Water: PMI Rodent Chow 5002 (PMI Feed, Inc., St. Louis, MO) was provided *ad libitum*, except during the exposure and scheduled fasting periods. City of Chicago municipal tap water was provided by means of an automatic watering system *ad libitum*, except during the exposure. No contaminants were known to be present in the feed or water at levels which would interfere with the outcome of the study.
  3. Environment: Upon receipt, rats were double-housed (within sex) in suspended stainless steel cages. Animals were single housed following group assignment.

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous Whole-Body Inhalation Exposure in Fischer 344 Rats

---

Absorbent paper cage boards were placed beneath the suspended cages to absorb liquids and retard the growth of ammonia-producing bacteria associated with animal feces and urine. Housing chamber temperatures and relative humidities were maintained between the protocol specified ranges of 19 to 25°C and 30 to 70% RH, respectively. Fluorescent lighting was provided automatically on a 12 hours light/12 hours dark schedule.

4. Assignment to Groups: The rats were randomly assigned in groups of ten rats per group per sex to five exposure groups of thirty male and thirty female rats and one exposure group of twenty male rats and twenty female rats by means of an in-house developed computerized procedure (RANS.D.EXE). No animal's body weight varied from the group body weight by more than 20%. Rats selected for the study were identified by an unique numbered tail tatoo and by a cage card. The identifying numbers assigned were unique within the study.
- E. Experimental Design: Groups of fifty rats/sex were exposed to test atmospheres of 0, 50 200, 1000 or 5000 ppm of hexamethyldisiloxane, Dow Corning® OS-10, for six hours per day for 28 consecutive days. Two additional groups of ten rats per sex were each exposed with the filtered air control rats (0 ppm) to be used as intra-assay controls in the NK and AFC assays. The exposures were conducted July 28, 1998 through August 31, 1998. Exposure groups were staggered started and exposures occurred over a 35 day period to accommodate the labor and time intensive assays. Following is a table showing the study design.

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous Whole-Body Inhalation Exposure in Fischer 344 Rats

Group	Exposure	Concentration (ppm)	Number of Animals per Sex		
			AFC Assay <sup>a</sup>	NK Assay <sup>b</sup>	Phenotype Analysis <sup>c</sup>
1	Filtered Air Control	0	10	10	10
2	HMDS	50	10	10	10
3	HMDS	200	10	10	10
4	HMDS	1000	10	10	10
5	HMDS	5000	10	10	10
6	Intra-assay Control	as noted	10	10	--
Totals (per Sex):			—	—	—
			60	60	50

<sup>a</sup> Four days prior to euthanasia, animals were immunized with sheep erythrocytes. One day following final exposure, animals were euthanized and humoral immunity was evaluated using the antibody-forming cell assay. Intra-assay control animals received intraperitoneal injections of cyclophosphamide (25 mg/kg/day) for five consecutive days prior to euthanasia.

<sup>b</sup> One day following final exposure, animals were euthanized and hematology (including WBC differential) and clinical chemistry parameters were measured. A limited gross necropsy was performed and selected organs were weighed. Spleen and thymus cellularity and viability were assessed, and natural immunity was evaluated in splenocytes using the NK cell assay. Intra-assay control animals received an intravenous injection of anti-asialo GM1 antibody one day prior to euthanasia.

<sup>c</sup> One day following final exposure, surface markers on spleen cells were enumerated using flow cytometry. Two animals/group/sex were evaluated each day. No ideal intra-assay control is available.

- F. **Mortality/ Moribundity Observations:** All animals were observed twice daily for mortality or moribundity (survival check). These observations, when appropriate, were concurrent with clinical observations.
- G. **Clinical Observations:** Clinical observations were performed on all animals during the quarantine period (pretest) prior to randomization into study groups, and once weekly throughout the study. Observations were recorded electronically using LABCAT within approximately one hour after the exposure period on the designated weekly observation day. The hand-held clinical observation consisted of an assessment

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous Whole-Body Inhalation Exposure in Fischer 344 Rats

---

of altered behavior, and changes in respiration and coat condition, as well as unusual discharge of body fluid, lesions, tremors, convulsions, salivation, loose stools, lethargy, sleep, and coma.

- H. **Body Weight Measurements:** Ten percent of the animals were weighed upon receipt. All study animals were weighed on the day of randomization, prior to the initial exposure, and twice weekly throughout the study. The final body weight was measured on the day of scheduled assay for AFC and Phenotype-designated rats. A non-fasted body weight was determined the day prior to and a fasted body weight was measured on the day of scheduled necropsy for NK-designated rats only. Body weight data collected after randomization was recorded electronically using LABCAT.
- I. **Feed Consumption:** Feed consumption was recorded weekly beginning on Study Day 1 using LABCAT. Baseline feed consumption was hand recorded for approximately one week prior to Study Day 1.
- J. **Necropsy:** A limited gross necropsy was performed on NK-designated animals. These animals were fasted for approximately 24 hours prior to necropsy and were euthanized by carbon dioxide asphyxiation. The necropsy was limited to the collection of blood for clinical pathology and collection of selected organs for organ weight determination. Paired organs were weighed together. The organs were: adrenals, brain (entire), heart, kidneys, liver, lungs (with bronchi), ovaries, spleen, stomach, testes, and thymus. Upon weighing of the spleen and thymus, they were placed together in a labeled container and provided to the technicians for determination of lymphoid organ cellularity and NK activity. All remaining tissues, as well as the animal carcass, were discarded after organ weighing.
- K. **Clinical Pathology:** Prior to necropsy, blood samples were collected via the retroorbital sinus of NK assay animals, which had been fasted overnight and anesthetized with 70% CO<sub>2</sub>/30% air. A summary of the clinical pathology methods and references available or used in this study is presented in Appendix C. Blood for hematology measurements was immediately mixed with anticoagulant (EDTA), while blood for clinical chemistry measurements was allowed to clot. Samples for hematology were held at room temperature and samples for clinical chemistry were

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous Whole-Body Inhalation Exposure in Fischer 344 Rats

---

centrifuged and separated serum was held at 4°C until assayed (*i.e.*, on the day collected).

Hematological parameters measured consisted of total erythrocyte count (RBC), hemoglobin, mean corpuscular volume, total and differential leukocyte count (WBC), including nucleated red blood cells and platelet count. The following values were calculated from the data: hematocrit, mean corpuscular hemoglobin and mean corpuscular hemoglobin concentration. Automated hematological determinations were performed with a Baker 9000 hematology analyzer. Hematology data were tabulated by computer via a validated electronic data capture software (LABCAT, IPA, Inc., Princeton, NJ, version 4.31) and statistical comparison of the data was performed as part of the software program. Immature and mature neutrophils, lymphocytes, monocytes, eosinophils, basophils and nucleated red blood cells (NRBC) were counted and reported as thousands of cells per cubic millimeter or, for NRBC, number per 100 WBC counted. Leukocyte differential counts were performed on Wright's-stained blood smears by classifying 100 leukocytes.

Serum chemistry analyses were conducted for the following clinical chemistry parameters measured: alkaline phosphatase, creatinine, aspartate aminotransferase, gamma-glutamyl transpeptidase, alanine aminotransferase, glucose, bilirubin, protein, cholesterol and urea nitrogen (BUN). Clinical chemistry tests were performed using a Beckman Synchron CX5 automated analyzer and data were recorded and compared statistically by computerized electronic data capture (LABCAT, IPA, Inc., Princeton, NJ, version 4.31).

- L. Lymphoid Organ Cellularity and Viability: In the NK assay subgroup, each spleen and thymus were placed in culture medium and a single-cell suspension prepared by gently rubbing the organ through nylon macromesh until no visible clumps remained. Tissue debris was allowed to settle briefly, aliquots were placed in isotonic saline, and total organ cellularity was determined by Coulter Counter® (Model ZM, Beckman Coulter, Inc., Fullerton, CA). Cells from each organ were analyzed for cellular viability using Trypan Blue exclusion visualized by light microscopy.
- M. Natural Killer (NK) Cell Assay: NK cell function was assessed using a modification of the microculture method originally described by Reynolds et al. (*J. Immunology*,

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous Whole-Body Inhalation Exposure in Fischer 344 Rats

127:282, 1981). Splenocytes were suspended in culture medium at various dilutions, and these cell suspensions were co-cultured in replicate in 96-well round-bottom plates with radiolabeled YAC-1 tumor target cells (viability of target cells was assessed prior to co-culture). Following incubation at approximately 37°C for approximately 4 hours, supernatant fluids were harvested, and the released radiolabel quantified in a gamma counter. Assay controls were included to account for spontaneous release of radiolabel from target cells in the absence of effector cells, and also for the determination of total release of radiolabel. Cytotoxicity was determined as the percentage of total releasable counts corrected for spontaneous radiolabel release. Intra-assay control animals received an optimally suppressive dose of anti-asialo GM1 antibody (0.175 ml of the reconstituted antibody in a 0.5 ml total volume) by intravenous injection one day prior to euthanasia.

- N. Antibody-Forming Cell (AFC) Assay: A modified plaque assay based on the original work of Cunningham and Szenberg (*Immunology* 14: 599, 1968) was used to assess the induction of splenic antibody-forming cells (AFC) secreting IgM antibody specific for sheep red blood cells (SRBC), a T-dependent antigen. Rats in the AFC Assay subgroup were immunized by intravenous injection of washed SRBC four days prior to euthanasia by CO<sub>2</sub> asphyxiation. At euthanasia the spleens were removed and weighed, and single-cell suspensions of splenocytes prepared. For enumeration of IgM AFC, tubes containing optimal concentrations of splenocytes, SRBC, and guinea pig complement were prepared. Plaques were enumerated using an agarose slide technique according to SOP. Rats dosed via intraperitoneal injection with 25 mg/kg/day body weight of cyclophosphamide for 5 consecutive days prior to euthanasia served as the intra-assay control.
- O. Phenotype Analysis: Cell surface markers on splenocytes were measured by fluorescence-activated cell sorter (FACS) flow cytometric analysis. The exposure group animals were divided into five test series (2 animals/sex/group/day for five days) to accommodate the labor- and time-intensive nature of this assay. One day following final exposure, animals were euthanized by CO<sub>2</sub> asphyxiation. Single cell suspensions were prepared and the spleen cells were placed into MEM medium. Cellularity and cell viability (trypan blue dye exclusion) were determined. Aliquots of the cell suspensions were stained for the appropriate surface markers including

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous Whole-Body Inhalation Exposure in Fischer 344 Rats

---

T-cells, T-cell subsets (CD4, CD8) and B-cells. All appropriate controls were included, and propidium iodide was used to measure viability (only viable cells were counted). Once the cells had been stained, they were transported on ice to the University of Illinois Research Resources Center for flow cytometric analysis. All surface marker analysis was performed by Dr. Karen Hagen of the Research Resources Center under subcontract to IITRI.

- P. **Statistics:** All statistical tests were two-tailed; a p value of  $\leq 0.05$  was regarded as statistically significant in all cases. Body weights, body weight gains, feed consumption, organ weights, organ-to-body weight ratios and clinical pathology data were analyzed by a one-way analysis of variance (ANOVA) followed by Dunnett's test, setting the filtered air group as the control group, using either LABCAT (IPA, Inc., Princeton, NJ; Versions 4.41 or 4.64) or Systat (SPSS, Inc., Chicago, IL; Version 5.0). Similarly, statistically significant differences in immune parameters were determined by either normal distribution or distribution-free techniques following ANOVA. If Bartlett's test for homogeneity of variance was not significant, comparisons with the control group (and other specific, pair-wise comparisons of groups) were based on the least significant difference criterion. If Bartlett's test was significant, these comparisons were based on Wilcoxon's rank sum test. Intra-assay control values were compared with the filtered air control only, using analysis of variance (ANOVA).
- Q. **Deviations:** Deviations or circumstances known to have occurred during the conduct of this study and their effect, if any, on the quality or integrity of the data from this study are described in Appendix C.
- R. **Archives:** All original raw data generated during the study, as well as a copy of the final report, will be retained in the IITRI archives (10 W. 35th Street, Chicago, IL 60616-3799) for a period of five years from the date of the signed report. Thereafter, the Sponsor will be consulted concerning the final disposition of the archival material.

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous Whole-Body Inhalation Exposure in Fischer 344 Rats

---

### III. RESULTS

#### A. Test Atmosphere

1. Exposure Concentrations: The exposure concentration of HMDS was determined by a calibrated gas chromatograph from samples taken approximately once per hour during the daily six hour exposure periods. Summary exposure data are presented in Table 2. Individual daily chamber concentrations, standard deviations, and the range of individual samples are provided in Appendix A. The mean concentration of HMDS vapor in the exposure atmosphere was 50 ppm, 201 ppm, 1008 ppm and 4978 ppm for the 50, 200, 1000 and 5000 ppm target concentrations, respectively. Thus, the overall mean exposure concentrations for all groups were within 1.8% of the target levels. The daily means were within  $\pm 10\%$  of the target concentrations for all the exposures except on two occasions for the 1000 ppm group (89 and 113% of target). The relative standard deviation which is a measurement of day-to-day variability ranged from 2.9 to 6.1% (Table 2).

The concentration of HMDS in the 0 ppm (filtered air) exposure chamber was below the level of detection. Nominal concentrations (*i.e.* weight of test formulation used divided by total airflow volume during the exposure) were 0 mg/l, 0.31 mg/l, 0.95 mg/l, 8.33 mg/l and 31.48 mg/l for the 0, 50, 200, 1000 and 5000 ppm target concentrations, respectively.

2. Exposure Atmosphere Homogeneity: The within-port and between-port variations of the overall test substance concentration within the exposure chambers, reported as percentages relative to the mean chamber concentrations, are shown in Table 3. The within-port (temporal) variations ranged from 0.312 to 2.42% RSD. The between-port (spatial) variability ranged from 0 to 2.87% across the four chambers.
3. Exposure Chamber Conditions: Throughout the study, the environmental conditions were monitored 24 hours a day by a computerized monitoring and alarm system. The chambers were operated at  $15 \pm 2$  air changes/hr and no excursions beyond this range were detected. During the exposures, the average chamber airflow ranged from 469 to 513 l/min. The mean chamber temperature

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous Whole-Body Inhalation Exposure in Fischer 344 Rats

---

was approximately 23 °C (daily range of 20.1 to 24.6 °C) and the mean chamber relative humidity ranged from 49 to 63% (daily range of 43.2 to 69.4%). The daily mean O<sub>2</sub> level in the chamber atmospheres during the exposures ranged from 19.8 to 21.0%.

- B. Mortality: No rats died spontaneously during the study (Table 4).
- C. Clinical Observations: Clinical observations are summarized in Table 5 and observations for individual animals are presented in Appendix B. A few study animals were observed with red material around the eyes, mouth and/or nose and wet inguinal fur, one animal experienced lacrimation and one animal had red crust around one eye. Observations were not considered test substance related, but due to caging and exposure method.
- D. Body Weights and Feed Consumption: Body weights, body weight gains and feed consumption data are summarized in Table 6, 7 and 8, respectively. Individual data are found in Appendix B. Group 3 (HMDS, 200 ppm) male rats had significantly decreased mean body weight on Days 11, 15 and 25. Group 5 (HMDS, 5000 ppm) male rats had significantly decreased mean body weight on Days 11 and 15. Group 6 (intra-assay control) male rats had significantly decreased mean body weight on Day 31. Group 5 female rats had significantly decreased mean body weight on Days 8, 11, 15, 18, 22 and 25. Group 6 female rats had significantly decreased mean body weight on Day 32. There was mean body weight gain in all the groups and no significant difference in total body weight gain. (Total body weight gain was based on Day 0 through Day 25 body weights due to staggered start.) However, significantly reduced body weight gains were observed in Groups 3, 4 and 5 male rats on Days 11 and/or 25 and significantly increased body weight gain was observed in Group 3 female rats on Day 25. Baseline feed consumption determined prior to exposure over a five day period for male and female rats was 71 and 63 grams, respectively. Significantly reduced feed consumption was observed on Day 15 and Days 15, 29 and 31 for Groups 5 and 6 male rats, respectively. Groups 2, 5 and 6 female rats had significantly reduced feed consumption on Day 32.
- E. Gross Necropsy: Gross necropsy observations for individual animals are summarized in Table 9. Individual data are presented in Appendix B. Gross necropsy

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous Whole-Body Inhalation Exposure in Fischer 344 Rats

---

observations consisted of pigmentation of the kidneys in two Group 2 (HMDS, 50 ppm), one Group 4 (HMDS, 1000 ppm) and three Group 5 (HMDS, 5000 ppm) male rats. One Group 5 and one Group 6 (intra-assay control) male rats were observed with pigmentation of the thymus. Liver lesions (median lobe), a nodule on one Group 2 and a mass on one Group 4 and one Group 5 female HMDS-exposed female rats, were also observed. Also, one Group 3 (HMDS, 200 ppm) female rat had red pigmentation of its left ovary. All other gross necropsy findings for the remaining animals were within normal limits.

- F. **Organ Weights:** Mean absolute organ weights are summarized in Table 10 and relative organ weights are summarized in Table 11. Individual values are reported in Appendix B.

Significantly increased mean absolute male kidney weight and male and female liver weights for the Group 5 (HMDS, 5000 ppm) rats were observed. Group 5 male and female rats also had significantly increased mean relative kidney and liver weights. Group 5 male rats also had significantly increased spleen weight and Group 4 female rats had significantly increased heart weight.

- G. **Clinical Pathology:** Mean hematology values are summarized in Table 12. Mean clinical chemistry values are summarized in Table 13. Individual values are reported in Appendix B. Clinical pathology methods are referenced in Appendix C.

Group 5 (HMDS, 5000 ppm) male rats had significantly decreased red blood cells, hemoglobin and hematocrit. No significant differences in hematology values were noted for the exposed female rats. Group 6 (intra-assay controls) male and female rats had significantly decreased white blood cells, platelets, mature neutrophils and lymphocytes. Female Group 6 rats also had significantly decreased monocytes. Individual animal red blood cell morphology and platelet observations are presented in Appendix B.

Significantly increased cholesterol values were seen in Groups 4 (HMDS, 1000 ppm), 5 and 6 male rats and Group 5 female rats. Group 5 male rats also had significantly elevated blood urea nitrogen levels. Group 6 male and female rats had increased alanine aminotransferase levels and Group 6 males had increased aspartate aminotransferase levels.

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous Whole-Body Inhalation Exposure in Fischer 344 Rats

---

- H. Lymphoid Organ Cellularity and Viability: The effect of HMDS on mean spleen and thymus cellularity on the day following 28 days of exposure dosing is shown in Table 14. Individual animal data are presented in Appendix B. Group 2 (HMDS, 50 ppm) male rats had significantly increased density of viable thymus cells and Group 6 (intra-assay control) female rats had significantly reduced viable spleen cell density.
- I. Splenic Natural Killer (NK) Cell Activity: There was no significant difference in splenic natural killer cell activity from rats exposed to HMDS following 28 days of exposure at all effector:target cell ratios. Results are summarized in Table 15 and individual animal data are presented in Appendix B. Group 6 (intra-assay control) male rats had significantly decreased NK activity at 100:1 and 33:1 and females rats at 100:1, 33:1 and 11:1 effector:target cell ratios.
- J. Antibody-Forming Cell Assay: The effect of HMDS on spleen antibody-forming cells is shown in Table 16. Individual animal data are presented in Appendix B. Group 5 (HMDS, 5000 ppm) male rats had significantly increased antibody-forming cell density and Groups 3 (HMDS, 200 ppm) and 5 (HMDS, 5000 ppm) female rats had significantly increased viable spleen cell density. Group 6 (intra-assay control) male and female rats had significantly decreased spleen weight, increased cell viability and density and decreased antibody-forming cell density and number per spleen.
- K. Spleen Lymphocyte Distribution: Cell marker data are summarized in Table 17 and individual data are shown in Appendix B. No significant differences in the percentage of spleen cell subpopulations were seen by cell surface marker analysis for all of the parameters tested.

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous Whole-Body Inhalation Exposure in Fischer 344 Rats

---

**IV. DISCUSSION**

Male and female Fischer 344 rats were exposed daily by whole-body inhalation for 6 hours/day, 7 days/week for 28 consecutive days with 50, 200, 1000 or 5000 ppm of hexamethyldisiloxane [HMDS (tested as Dow Corning® OS-10)]. Filtered-air exposed animals served as controls. Intra-assay controls, for NK and AFC assays, were also exposed to filtered-air. All study parameters were assessed one day after the final exposure.

The immunologic endpoints tested, natural killer cell function and antibody forming cell production, were validated by the significant changes seen in intra-assay control animals as compared to controls. However, comparison of data from control animals in this study with control animals in other studies conducted at this facility suggests that the responses of test animals were outside the norm for studies conducted at this facility.

The following table highlights the apparent changes in several of the immunologic endpoints tested:

<u>Endpoint</u>	<u>Approximate Change From Historic Values (%)</u>
Viable cells per spleen	-50
Viable cells per thymus	-90
Natural killer cell activity	+200
Antibody forming cells per 1x10 <sup>6</sup> splenic cells	-80
Antibody forming cells per spleen	-80

These changes suggest that the test animals used in this study did not react in the same manner as those from past studies. The extreme elevation in NK cell activity makes it difficult to assess the effect of HMDS on NK cell activity. The significant depression in AFC response makes it difficult to assess the effect of HMDS on AFC activity.

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

---

V. CONCLUSION

Fischer 344 rats exposed via inhalation for 28 consecutive days to low, mid or high doses of HMDS had minimal signs of toxicity. Minimal toxicity was evidenced by no mortality, no clinical signs of toxicity, minimal changes in body weights or body weight gains, and increased organ weights for kidneys and livers (males) and livers (females) of high dose HMDS-exposed animals only. There were no alterations in splenic lymphocyte distribution, as determined by immunophenotyping, under exposure conditions which resulted in increased liver and kidney weights in exposed rats. Although there did not appear to be any effects which were concluded to be treatment-related in spleen or thymus cellularity, natural killer cell activity, or in the antibody-forming cell response, the deviation of the control values from the historical range noted in the Discussion (varying from 50% below to 200% above historical values) precludes meaningful interpretation of these results. These deviations in the control animals suggest that the immunologic functions of the test animals may not have been "normal".

DC Study No. - 9027  
External No. - L08710-1

DC Report No. - 1999-I0000-47623  
Security - Internal

**Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats**

---

**VI. TABLES**

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

Table 1.

Abbreviations

ALP	- alkaline phosphatase (international units / liter serum)
ALT	- alanine aminotransferase (international units / liter serum)
AST	- aspartate aminotransferase (international units / liter serum)
BASO	- basophils (absolute: thousands of cells/cubic millimeter blood; relative: percent leukocytes counted)
BUN	- blood urea nitrogen (milligrams nitrogen / deciliter serum)
CHOL	- cholesterol (milligrams / deciliter serum)
CREA	- creatinine (milligrams / deciliter serum)
EOSIN	- eosinophils (absolute: thousands of cells/cubic millimeter blood; relative: percent leukocytes counted)
F	- female
g	- gram
GGT	- gamma-glutamyl transpeptidase (international units / liter serum)
GLU	- glucose (milligrams / deciliter serum)
HCT	- hematocrit (percent)
HGB	- hemoglobin (grams / deciliter blood)
IMM NEU	- immature neutrophils (absolute: thousands of cells / cubic millimeter blood)
LYMPH	- lymphocytes (absolute: thousands of cells/cubic millimeter blood)
M	- male
MAT NEU	- mature neutrophils (absolute: thousands of cells / cubic millimeter blood)
MCH	- mean corpuscular hemoglobin (picograms)
MCHC	- mean corpuscular hemoglobin concentration (percent)
MCV	- mean corpuscular volume ( $fL=femtoliter; 10^{-15}$ liter, equivalent to a cubic micron)
MONO	- monocytes (absolute: thousands of cells/cubic millimeter blood)
NRBC	- nucleated red blood cells (number / 100 white blood cells)
PLT	- platelet count (thousands / cubic millimeter blood)
ppm	- parts per million
RBC	- red blood cell count (millions of cells / cubic millimeter blood)
RETABS	- absolute reticulocyte count (thousands / cubic millimeter blood)
RETPC	- relative reticulocyte count (percent of total erythrocyte count)
RSD	- relative standard deviation (percent)
SD	- standard deviation
SEM	- standard error of mean
TBIL	- total bilirubin (milligrams / deciliter serum)
TP	- total protein (grams protein / deciliter serum)
WBC	- white blood cell count (thousands of cells / cubic millimeter blood); corrected for NRBC

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

Table 2.

Summary of Inhalation Exposure Concentrations Determined by Gas Chromatography (GC)

Exposure Group	Vapor Concentration (ppm)					% Mean/ Target
	Target	Mean <sup>a</sup>	± SD	N	% RSD	
1	0	BDL <sup>b</sup>	-	35	-	-
2	50	51	1.5	35	2.9	102
3	200	201	8.4	35	4.2	101
4	1000	1008	61.2	35	6.1	101
5	5000	4978	145.9	35	2.9	99.6

<sup>a</sup> Overall means for the 35-day exposure period.

<sup>b</sup> BDL: Below detection limit. No test substance detected in any Group 1 (filtered air control) chamber sample.

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

Table 3.  
Summary of Test Atmosphere Homogeneity

Chamber Atmosphere Homogeneity			
Target Concentration (ppm)	BPV <sup>a</sup>	TPV <sup>b</sup>	WPV <sup>c</sup>
50	0.99	1.05	0.355
200	1.87	1.90	0.312
1000	0	1.09	2.42
5000	2.87	3.71	2.35

<sup>a</sup> Spatial Homogeneity: between-port variation, calculated from  $(BPV)^2 = (TPV)^2 - (WPV)^2$ .  
If WPV > TPV then BPV = 0.

<sup>b</sup> Total port variation determined by Infrared Spectroscopy.

<sup>c</sup> Temporal Homogeneity: within-port variation determined by Infrared Spectroscopy.

DC Study No. - 9027  
External No. - L08710-1

DC Report No. - 1999-I0000-47623  
Security - Internal

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

Table 4.  
Summary of Mortality

Observation	Males				Females			
	Filtered Air Control (0 ppm)	HMDS (50 ppm)	HMDS (200 ppm)	HMDS (1000 ppm)	HMDS (5000 ppm)	HMDS (5000 ppm)	Intra-assay Control (0 ppm)	
Died on Test	0	0	0	0	0	0	0	
Terminal Sacrifice	30	30	30	30	30	30	20	
Total Number of Animals	30	30	30	30	30	30	20	

DC Study No. - 9027  
External No. - L08710-1

DC Report No. - 1999-I0000-47623  
Security - Internal

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

Table 5.  
Summary of Incidence<sup>a</sup> of Clinical Observations

Observation	Males				Females			
	Filtered Air Control (0 ppm)	HMDS (50 ppm)	HMDS (200 ppm)	HMDS (1000 ppm)	HMDS (5000 ppm)	HMDS (5000 ppm)	Intra-assay Control (0 ppm)	
Red Material Around Eyes	0	0	1	0	2	0	0	
Lacrimation	0	0	0	0	1	0	0	
Total Number of Animals	30	30	30	30	30	30	20	
Observation	Males				Females			
	Filtered Air Control (0 ppm)	HMDS (50 ppm)	HMDS (200 ppm)	HMDS (1000 ppm)	HMDS (5000 ppm)	HMDS (5000 ppm)	Intra-assay Control (0 ppm)	
Red Material Around Eyes	1	2	4	2	3	1	1	
Red Material Around Mouth	0	0	0	0	0	1	1	
Red Material Around Nose	0	0	1	0	0	0	0	
Wet Inguinal Fur	0	1	0	1	0	1	1	
Left Eye with Red Crust	0	0	0	0	1	0	0	
Total Number of Animals	30	30	30	30	30	30	20	

<sup>a</sup> Number of animals exhibiting the observation at some time during the study

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
 Whole-Body Inhalation Exposure in Fischer 344 Rats

Table 6.

Body Weight Summary Data - Males

Study <u>Day</u>		Body Weight (g)					
		Group <sup>a</sup>					
		<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>
Day 1	Mean	149	149	148	144	146	145
	SD	6.8	6.6	8.0	8.7	8.3	7.5
	N	30	30	30	30	30	20
Day 4	Mean	162	164	161	162	160	161
	SD	6.5	6.1	6.8	6.2	6.0	5.9
	N	30	30	30	30	30	20
Day 8	Mean	183	184	180	182	179	181
	SD	6.2	7.8	7.9	7.5	6.5	7.6
	N	30	30	30	30	30	20
Day 11	Mean	196	195	191*	194	190*	193
	SD	6.9	9.2	8.4	7.2	7.4	8.7
	N	30	30	30	30	30	20
Day 15	Mean	209	206	202*	207	202*	205
	SD	7.9	10.3	9.6	8.2	8.2	9.9
	N	30	30	30	30	30	20
Day 18	Mean	217	215	209*	214	211	214
	SD	8.6	12.0	10.5	9.2	9.2	10.9
	N	30	30	30	30	30	20
Day 22	Mean	227	225	219	225	221	224
	SD	9.3	13.5	12.5	10.5	9.9	12.5
	N	30	30	30	30	30	20
Day 25	Mean	234	233	230	230	229	231
	SD	10.3	14.2	13.5	11.3	10.0	13.5
	N	30	30	30	30	30	20

<sup>a</sup> 1 = Filtered Air (0 ppm); 2 = HMDS (50 ppm); 3 = HMDS (200 ppm);  
 4 = HMDS (1000 ppm); 5 = HMDS (5000 ppm); 6 = Intra-assay control (0 ppm)  
 \* Significantly different from Filtered Air control, p ≤ 0.05

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous Whole-Body Inhalation Exposure in Fischer 344 Rats

Table 6 (cont.).

Body Weight Summary Data - Males

Study <u>Day</u>		Body Weight (g)					
		Group <sup>a</sup>					
		<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>
NK Final	Mean	238	237	225	239	236	232
	SD	13.4	11.2	13.1	13.3	6.8	15.2
	N	10	10	10	10	10	10
Day 29	Mean	233	234	227	235	233	220
	SD	15.9	20.6	20.9	17.1	15.6	16.3
	N	30	30	30	30	30	20
Day 30	Mean	247	237	246	235	257	-- <sup>b</sup>
	SD	2.8	6.4	12.0	14.1	9.9	--
	N	2	2	2	2	2	0
Day 31	Mean	241	244	238	249	243	221*
	SD	10.2	19.0	16.2	12.9	11.8	14.2
	N	12	12	12	12	12	10
Day 32	Mean	245	257	240	246	244	--
	SD	5.2	27.8	18.3	9.9	12.9	--
	N	4	4	4	4	4	0
Day 35	Mean	253	245	250	261	260	--
	SD	0.7	18.4	28.3	4.9	9.9	--
	N	2	2	2	2	2	0
Day 36	Mean	247	280	240	246	242	--
	SD	1.4	37.5	4.9	5.7	8.5	--
	N	2	2	2	2	2	0

<sup>a</sup> 1 = Filtered Air (0 ppm); 2 = HMDS (50 ppm); 3 = HMDS (200 ppm);  
4 = HMDS (1000 ppm); 5 = HMDS (5000 ppm); 6 = Intra-assay control (0 ppm)

<sup>b</sup> -- = No data

\* Significantly different from Filtered Air control, p ≤ 0.05

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

Table 6 (cont.).

Body Weight Summary Data - Females

Study Day		Body Weight (g)					
		Group <sup>a</sup>					
		1	2	3	4	5	6
Day 1	Mean	125	126	126	124	124	124
	SD	3.7	5.1	5.2	6.2	3.2	3.8
	N	30	30	30	30	30	20
Day 4	Mean	129	129	128	128	127	129
	SD	5.2	6.8	4.0	6.1	3.9	3.8
	N	30	30	30	30	30	20
Day 8	Mean	138	138	138	135	135*	138
	SD	4.4	4.0	4.7	3.7	4.3	5.2
	N	30	30	30	30	30	20
Day 11	Mean	143	142	142	141	139*	143
	SD	4.8	4.6	7.4	3.4	4.5	5.7
	N	30	30	30	30	30	20
Day 15	Mean	147	146	146	145	143*	149
	SD	5.4	4.5	7.8	3.9	4.9	4.9
	N	30	30	30	30	30	20
Day 18	Mean	151	149	150	149	146*	152
	SD	5.3	5.4	8.2	4.4	4.8	5.5
	N	30	30	30	30	30	20
Day 22	Mean	155	153	154	152	150*	157
	SD	5.5	6.7	8.2	4.3	5.8	5.8
	N	30	30	30	30	30	20
Day 25	Mean	158	156	161	154	152*	159
	SD	5.8	6.5	7.2	4.4	5.6	5.7
	N	30	30	30	30	30	20

<sup>a</sup> 1 = Filtered Air (0 ppm); 2 = HMDS (50 ppm); 3 = HMDS (200 ppm);  
4 = HMDS (1000 ppm); 5 = HMDS (5000 ppm); 6 = Intra-assay control (0 ppm)  
\* Significantly different from Filtered Air control, p ≤ 0.05

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

Table 6 (cont.).

Body Weight Summary Data - Females

Study <u>Day</u>		Body Weight (g)					
		Group <sup>a</sup>					
		<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>
Day 29	Mean	159	159	161	158	155	160
	SD	6.5	6.8	7.0	5.2	6.6	6.6
	N	30	30	30	30	30	20
Day 30	Mean	145	148	149	145	144	147
	SD	6.2	11.6	7.8	7.1	7.6	5.5
	N	12	12	12	12	12	10
Day 31	Mean	161	159	157	162	155	-- <sup>b</sup>
	SD	12.0	0.7	7.1	3.5	9.9	--
	N	2	2	2	2	2	0
Day 32	Mean	161	160	159	160	157	147*
	SD	6.5	7.4	7.0	6.5	4.4	6.0
	N	14	14	14	14	14	10
Day 35	Mean	154	171	159	163	162	--
	SD	9.9	0.7	12.0	6.4	8.5	--
	N	2	2	2	2	2	0
Day 36	Mean	167	170	160	161	153	--
	SD	0.0	4.2	11.3	3.5	0	--
	N	2	2	2	2	2	0

<sup>a</sup> 1 = Filtered Air (0 ppm); 2 = HMDS (50 ppm); 3 = HMDS (200 ppm);  
4 = HMDS (1000 ppm); 5 = HMDS (5000 ppm); 6 = Intra-assay control (0 ppm)

<sup>b</sup> -- = No data

\* Significantly different from Filtered Air control, p < 0.05

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

Table 7.

Body Weight Gain Summary Data - Males

Group <sup>a</sup>		Body Weight Gain (g)							Total Gain <sup>c</sup>
		Day <sup>b</sup> 4	Day 8	Day 11	Day 15	Day 18	Day 22	Day 25	
1	Mean	13	21	13	12	8	10	7	85
	SD	5.8	3.2	2.7	2.6	2.0	2.7	2.5	9.3
	N	30	30	30	30	30	30	30	30
2	Mean	16	19	11	11	9	11	8	85
	SD	4.0	3.7	3.2	3.2	2.4	2.8	1.8	11.8
	N	30	30	30	30	30	30	30	30
3	Mean	13	19	11*	11	7	10	11*	82
	SD	4.3	3.5	2.6	2.7	2.1	2.8	2.4	11.7
	N	30	30	30	30	30	30	30	30
4	Mean	17	20	11	13	8	11	5*	86
	SD	7.4	3.4	2.1	2.7	2.3	2.0	2.1	11.6
	N	30	30	30	30	30	30	30	30
5	Mean	14	19	11*	12	9	10	8	82
	SD	7.1	3.2	2.5	2.8	1.7	2.4	2.0	12.1
	N	30	30	30	30	30	30	30	30
6	Mean	16	20	13	12	9	10	7	86
	SD	7.6	3.7	3.3	3.5	1.6	3.2	2.0	14.0
	N	20	20	20	20	20	20	20	20

<sup>a</sup> 1 = Filtered Air (0 ppm); 2 = HMDS (50 ppm); 3 = HMDS (200 ppm);  
4 = HMDS (1000 ppm); 5 = HMDS (5000 ppm); 6 = Intra-assay control (0 ppm)

<sup>b</sup> Study day

<sup>c</sup> Day 1 through Day 25

\* Significantly different from Filtered Air control, p ≤ 0.05

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

Table 7 (cont.).

Body Weight Gain Summary Data - Females

Group <sup>a</sup>		Body Weight Gain (g)							Total Gain <sup>c</sup>
		Day <sup>b</sup> 4	Day 8	Day 11	Day 15	Day 18	Day 22	Day 25	
1	Mean	3	9	5	4	3	4	3	32
	SD	4.3	4.9	2.0	2.3	1.8	2.4	2.3	5.5
	N	30	30	30	30	30	30	30	30
2	Mean	3	9	4	4	3	4	3	30
	SD	3.2	4.5	2.5	1.7	2.1	2.0	2.0	6.0
	N	30	30	30	30	30	30	30	30
3	Mean	3	10	4	4	4	4	7*	35
	SD	5.5	2.2	5.1	2.4	2.3	2.2	2.4	7.7
	N	30	30	30	30	30	30	30	30
4	Mean	4	7	6	5	4	4	2	31
	SD	6.0	4.7	2.0	1.9	2.4	2.3	1.5	6.5
	N	30	30	30	30	30	30	30	30
5	Mean	4	7	4	4	3	3	2	28
	SD	2.1	2.0	2.3	2.0	1.5	2.2	1.7	5.6
	N	30	30	30	30	30	30	30	30
6	Mean	4	9	5	6	3	5	2	35
	SD	2.6	3.3	2.3	2.3	2.2	2.6	3.0	5.2
	N	20	20	20	20	20	20	20	20

<sup>a</sup> 1 = Filtered Air (0 ppm); 2 = HMDS (50 ppm); 3 = HMDS (200 ppm);  
4 = HMDS (1000 ppm); 5 = HMDS (5000 ppm); 6 = Intra-assay control (0 ppm)

<sup>b</sup> Study day

<sup>c</sup> Day 1 through Day 25

\* Significantly different from Filtered Air control, p ≤ 0.05

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

Table 8.

Weekly Feed Consumption Summary Data - Males

Study <u>Day</u>		Weekly Feed Consumption (g)					
		Group <sup>a</sup>					
		<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>
Day 8	Mean	113	116	113	115	111	111
	SD	5.9	8.1	7.7	6.9	6.8	8.0
	N	30	30	30	30	30	20
Day 15	Mean	115	113	110	111	108*	105*
	SD	7.7	9.3	7.8	6.2	8.9	15.8
	N	30	30	30	30	30	20
Day 22	Mean	111	109	106	106	107	108
	SD	6.3	7.9	7.6	7.1	6.8	10.5
	N	30	30	30	30	30	20
NK Final	Mean	92	91	86	88	91	89
	SD	6.8	5.6	5.8	6.3	4.0	9.5
	N	10	10	10	10	10	10
Day 29	Mean	106	109	106	110	108	96*
	SD	11.1	8.4	7.6	6.1	6.0	6.5
	N	20	20	20	20	20	10
Day 30	Mean	15	14	15	15	16	-- <sup>b</sup>
	SD	0.7	0.0	1.4	0.7	0.7	--
	N	2	2	2	2	2	0

<sup>a</sup> 1 = Filtered Air (0 ppm); 2 = HMDS (50 ppm); 3 = HMDS (200 ppm);  
4 = HMDS (1000 ppm); 5 = HMDS (5000 ppm); 6 = Intra-assay control (0 ppm)

<sup>b</sup> -- = No data

\* Significantly different from Filtered Air control, p < 0.05

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

Table 8 (cont.).

Weekly Feed Consumption Summary Data - Males

Study <u>Day</u>		Weekly Feed Consumption (g)					
		Group <sup>a</sup>					
		<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>
Day 31	Mean	35	31	29	32	31	20*
	SD	14.4	2.6	2.3	1.8	2.3	3.9
	N	12	12	12	12	12	10
Day 32	Mean	48	52	48	48	48	-- <sup>b</sup>
	SD	1.8	9.4	3.5	2.1	5.0	--
	N	4	4	4	4	4	0
Day 35	Mean	50	48	50	51	52	--
	SD	0.0	4.2	6.4	3.5	2.8	--
	N	2	2	2	2	2	0
Day 36	Mean	66	73	62	63	61	-
	SD	3.5	6.4	6.4	2.1	4.2	-
	N	2	2	2	2	2	0

<sup>a</sup> 1 = Filtered Air (0 ppm); 2 = HMDS (50 ppm); 3 = HMDS (200 ppm);  
4 = HMDS (1000 ppm); 5 = HMDS (5000 ppm); 6 = Intra-assay control (0 ppm)

<sup>b</sup> -- = No data

\* Significantly different from Filtered Air control, p ≤ 0.05

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

Table 8 (cont.).

Weekly Feed Consumption Summary Data - Females

Study <u>Day</u>		Weekly Feed Consumption (g)					
		<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>
Day 8	Mean	79	80	80	77	79	83
	SD	6.1	7.3	7.5	7.9	6.4	9.3
	N	30	30	30	30	30	20
Day 15	Mean	77	76	75	72	71	77
	SD	12.5	5.2	9.9	10.2	6.7	6.4
	N	30	30	30	30	30	20
Day 22	Mean	73	73	77	71	71	76
	SD	6.7	9.7	13.9	9.1	8.0	4.7
	N	30	30	30	30	30	20
Day 29	Mean	71	71	72	68	70	75
	SD	6.6	5.1	5.7	12.2	6.8	6.1
	N	30	30	30	30	30	20
Day 30	Mean	10	10	8	7	10	-- <sup>b</sup>
	SD	0.7	1.4	0.7	1.4	0.7	--
	N	2	2	2	2	2	0

<sup>a</sup> 1 = Filtered Air (0 ppm); 2 = HMDS (50 ppm); 3 = HMDS (200 ppm);  
4 = HMDS (1000 ppm); 5 = HMDS (5000 ppm); 6 = Intra-assay control (0 ppm)

<sup>b</sup> -- = No data

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

Table 8 (cont.).

Weekly Feed Consumption Summary Data - Males

Study <u>Day</u>		Weekly Feed Consumption (g)					
		Group <sup>a</sup>					
		<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>
Day 31	Mean	35	31	29	32	31	20*
	SD	14.4	2.6	2.3	1.8	2.3	3.9
	N	12	12	12	12	12	10
Day 32	Mean	48	52	48	48	48	-- <sup>b</sup>
	SD	1.8	9.4	3.5	2.1	5.0	--
	N	4	4	4	4	4	0
Day 35	Mean	50	48	50	51	52	--
	SD	0.0	4.2	6.4	3.5	2.8	--
	N	2	2	2	2	2	0
Day 36	Mean	66	73	62	63	61	-
	SD	3.5	6.4	6.4	2.1	4.2	-
	N	2	2	2	2	2	0

<sup>a</sup> 1 = Filtered Air (0 ppm); 2 = HMDS (50 ppm); 3 = HMDS (200 ppm);  
4 = HMDS (1000 ppm); 5 = HMDS (5000 ppm); 6 = Intra-assay control (0 ppm)

<sup>b</sup> -- = No data

\* Significantly different from Filtered Air control,  $p \leq 0.05$

**Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
 Whole-Body Inhalation Exposure in Fischer 344 Rats**

**Table 9.**  
**Summary of Incidence<sup>a</sup> of Necropsy Observations**

Tissue and Observation	Males				Intra-assay Control (0 ppm)
	Filtered Air Control (0 ppm)	HMDS (50 ppm)	HMDS (200 ppm)	HMDS (1000 ppm)	
No gross lesions	10	8	10	9	7
Kidneys - pigmentation, mottled	-	2	-	1	3
Thymus - pigmentation, mottled	-	-	-	-	1
Total Number of Animals	10	10	10	10	10
Females					
Tissue and Observation	Filtered Air Control (0 ppm)	HMDS (50 ppm)	HMDS (200 ppm)	HMDS (1000 ppm)	Intra-assay Control (0 ppm)
No gross lesions	10	9	9	9	9
Liver (median lobe) - nodule	-	1	-	-	-
Liver (median lobe) - mass	-	-	-	1	1
Ovary (left) - pigmentation, red	-	-	1	-	-
Total Number of Animals	10	10	10	10	10

<sup>a</sup> Number of animals exhibiting the observation

Immunotoxicity Assessment of Hexamethylidisiloxane (HMDS) Following a 28-Day Continuous  
 Whole-Body Inhalation Exposure in Fischer 344 Rats

Table 10.  
 Summary of Organ Weight Data - Males

Group <sup>a</sup>	Fasted Body Weight (g)						Organ Weight (g)					
	Adrenals	Brain	Heart	Kidneys	Liver	Lungs	Spleen	Stomach	Testes	Thymus		
1 Mean <sup>b</sup>	216	0.055	1.868 <sup>c</sup>	1.064	1.735	7.316 <sup>e</sup>	1.104	0.438	1.234	2.828	0.301	
	SD	12.0	0.0106	0.0373	0.6617	0.1040	0.3171	0.1063	0.0292	0.1014	0.0917	0.0250
2 Mean	215	0.049	1.809	0.825	1.716	7.801	1.145	0.436	1.169	2.783	0.288	
	SD	10.3	0.0051	0.0636	0.0345	0.0883	0.6062	0.0906	0.0293	0.1202	0.1039	0.0201
3 Mean	205	0.053	1.844	0.815 <sup>e</sup>	1.690	7.450	1.054	0.425	1.328	2.697	0.284	
	SD	11.7	0.0114	0.0411	0.0679	0.1229	0.9537	0.0704	0.0276	0.3394	0.1407	0.0256
4 Mean	217	0.055	1.840	0.813	1.797	8.061	1.185	0.457	1.251	2.807	0.277	
	SD	12.0	0.0049	0.0372	0.0762	0.1028	0.7626	0.1278	0.0313	0.1058	0.0821	0.0236
5 Mean	217	0.056	1.836	0.799	1.989*	8.584 <sup>e*</sup>	1.215	0.486	1.249 <sup>e</sup>	2.797	0.293	
	SD	9.7	0.0095	0.0518	0.0458	0.1118	0.9136	0.1725	0.0483	0.0862	0.1075	0.0395
6 Mean	210	0.055	1.834 <sup>e</sup>	0.821 <sup>e</sup>	1.740	7.650	1.139	0.425	1.200	2.729	0.270	
	SD	13.4	0.0058	0.0433	0.0685	0.1085	0.7348	0.0916	0.0330	0.1369	0.1278	0.0331

<sup>a</sup> 1 = Filtered Air (0 ppm); 2 = HMDS (50 ppm); 3 = HMDS (200 ppm);  
 4 = HMDS (1000 ppm); 5 = HMDS (5000 ppm); 6 = Intra-assay Control (0 ppm)  
<sup>b</sup> N = 10, unless noted; \* N = 9  
<sup>c</sup> Significantly different from Filtered Air Control, p ≤ 0.05

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
 Whole-Body Inhalation Exposure in Fischer 344 Rats

Table 10 (cont.).

Summary of Organ Weight Data - Females

Group <sup>a</sup>	Fasted Body Weight (g)						Organ Weight (g)					
	Weight (g)	Adrenals	Brain	Heart	Kidneys	Liver	Lungs	Ovaries	Spleen	Stomach	Thymus	
1	Mean <sup>b</sup>	143	0.054	1.710	0.574	1.102	4.829	0.881	0.076	0.332	0.966	0.257
	SD	3.4	0.0079	0.0231	0.0208	0.0376	0.3842	0.0960	0.0154	0.0234	0.1825	0.0123
2	Mean	144	0.052	1.711	0.599	1.114	5.011	0.896	0.077	0.339	1.034	0.265
	SD	7.9	0.0068	0.0404	0.0436	0.0765	0.4358	0.1363	0.0195	0.0322	0.2803	0.0375
3	Mean	147	0.054	1.692	0.609	1.165	5.261	0.881	0.092	0.344	1.055	0.270
	SD	7.1	0.0053	0.0799	0.0260	0.0631	0.4878	0.0709	0.0136	0.0335	0.1838	0.0355
4	Mean	143	0.052	1.710 <sup>c</sup>	0.602	1.146	5.124	0.942	0.080	0.352	1.045	0.257
	SD	3.8	0.0053	0.0274	0.0252	0.0535	0.3911	0.1072	0.0118	0.0233	0.1415	0.0317
5	Mean	142	0.054	1.707	0.586	1.146	5.454*	0.950	0.091 <sup>c</sup>	0.347	1.104	0.273
	SD	5.5	0.0045	0.0252	0.0233	0.0622	0.3222	0.1879	0.0132	0.0206	0.1639	0.0285
6	Mean	147	0.055	1.719	0.591	1.150	5.246	0.887	0.091	0.349	1.035	0.257
	SD	5.5	0.0044	0.0359	0.0305	0.0610	0.5518	0.1007	0.0191	0.0337	0.2095	0.0211

\* 1 = Filtered Air (0 ppm); 2 = HMDS (50 ppm); 3 = HMDS (200 ppm);

4 = HMDS (1000 ppm); 5 = HMDS (5000 ppm); 6 = Intra-assay Control (0 ppm)

<sup>b</sup> N = 10, unless noted; <sup>c</sup> N = 9

\* Significantly different from Filtered Air Control, p ≤ 0.05

Immunotoxicity Assessment of Hexamethylidisiloxane (HMDS) Following a 28-Day Continuous  
 Whole-Body Inhalation Exposure in Fischer 344 Rats

Table 11.  
 Summary of Relative<sup>a</sup> Organ Weight Data - Males

Group <sup>b</sup>	Relative Organ Weight (%)									
	Adrenals	Brain	Heart	Kidneys	Liver	Lungs	Spleen	Stomach	Testes	Thymus
1 Mean <sup>c</sup>	0.03	0.87 <sup>d</sup>	0.49	0.80	3.42 <sup>d</sup>	0.51	0.20	0.57	1.31	0.14
	SD	0.004	0.045	0.282	0.035	0.121	0.037	0.008	0.047	0.068
2 Mean	0.02	0.84	0.38	0.80	3.63	0.53	0.20	0.54	1.30	0.13
	SD	0.003	0.060	0.020	0.027	0.358	0.051	0.009	0.050	0.059
3 Mean	0.03	0.90	0.40 <sup>d</sup>	0.82	3.64	0.52	0.21	0.65	1.32	0.14
	SD	0.006	0.063	0.030	0.032	0.390	0.039	0.011	0.162	0.074
4 Mean	0.03	0.85	0.37	0.83	3.71	0.55	0.21	0.58	1.30	0.13
	SD	0.002	0.056	0.021	0.020	0.264	0.058	0.010	0.042	0.048
5 Mean	0.03	0.85	0.37	0.92*	3.99 <sup>d*</sup>	0.56	0.22*	0.58 <sup>d</sup>	1.29	0.13
	SD	0.004	0.023	0.019	0.051	0.322	0.073	0.014	0.028	0.068
6 Mean	0.03	0.87 <sup>d</sup>	0.39 <sup>d</sup>	0.83	3.64	0.54	0.20	0.57	1.30	0.13
	SD	0.002	0.052	0.019	0.036	0.260	0.047	0.017	0.057	0.061

<sup>a</sup> Relative Organ Weight = [organ weight (g) + fasted body weight (g)] x 100

<sup>b</sup> 1 = Filtered Air (0 ppm); 2 = HMDS (50 ppm); 3 = HMDS (200 ppm);

4 = HMDS (1000 ppm); 5 = HMDS (5000 ppm); 6 = Intra-assay Control (0 ppm)

<sup>c</sup> N = 10, unless noted; <sup>d</sup> N = 9

\* Significantly different from Filtered Air Control, p < 0.05

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
 Whole-Body Inhalation Exposure in Fischer 344 Rats

Table 11 (cont.).

Summary of Relative<sup>a</sup> Organ Weight Data - Females

Group <sup>b</sup>	Adrenals	Relative Organ Weight (%)								
		Brain	Heart	Kidneys	Liver	Lungs	Ovaries	Spleen	Stomach	Thymus
1 Mean <sup>c</sup>	0.04	1.20	0.40	0.77	3.38	0.62	0.05	0.23	0.68	0.18
SD	0.005	0.016	0.013	0.026	0.212	0.072	0.011	0.013	0.134	0.009
2 Mean	0.04	1.19	0.42	0.78	3.49	0.62	0.05	0.24	0.72	0.18
SD	0.005	0.060	0.015	0.022	0.204	0.072	0.013	0.016	0.190	0.021
3 Mean	0.04	1.16	0.42	0.79	3.58	0.60	0.06	0.23	0.72	0.18
SD	0.005	0.058	0.020	0.027	0.210	0.041	0.009	0.019	0.116	0.020
4 Mean	0.04	1.19 <sup>d</sup>	0.42*	0.80	3.59	0.66	0.06	0.25	0.73	0.18
SD	0.004	0.021	0.013	0.032	0.247	0.071	0.009	0.014	0.106	0.022
5 Mean	0.04	1.20	0.41	0.81*	3.85*	0.67	0.06 <sup>d</sup>	0.24	0.78	0.19
SD	0.002	0.042	0.018	0.025	0.144	0.125	0.009	0.008	0.123	0.016
6 Mean	0.04	1.17	0.40	0.78	3.57	0.60	0.06	0.24	0.71	0.17
SD	0.002	0.046	0.015	0.027	0.323	0.062	0.013	0.018	0.160	0.013

<sup>a</sup> Relative Organ Weight = [organ weight (g) ÷ fasted body weight (g)] × 100

<sup>b</sup> 1 = Filtered Air (0 ppm); 2 = HMDS (50 ppm); 3 = HMDS (200 ppm); 4 = HMDS (1000 ppm); 5 = HMDS (5000 ppm); 6 = Intra-assay Control (0 ppm)

<sup>c</sup> N = 10, unless noted;

<sup>d</sup> N = 9  
 \* Significantly different from Filtered Air Control, p ≤ 0.05

Immunotoxicity Assessment of Hexamethylidisiloxane (HMDS) Following a 28-Day Continuous  
 Whole-Body Inhalation Exposure in Fischer 344 Rats

Table 12.

Hematology Summary Data - Males

Assay <u>Parameter</u>		Group <sup>a</sup>					
		<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>
RBC	Mean <sup>b</sup>	9.19	9.06	9.03	8.85	8.56*	8.86
	SD	0.317	0.298	0.323	0.154	0.506	0.36
WBC	Mean	10.2	10.9	10.0	10.1	10.3	4.9*
	SD	1.05	2.14	1.32	0.97	1.33	0.94
PLT	Mean	725	737	729	748	761	623*
	SD	25.8	44.4	44.1	45	58.3	37.6
RETPC	Mean	2.4	2.9	2.5	2.5	2.7	2.7
	SD	0.57	0.85	0.52	0.88	0.60	0.47
RETABS	Mean	220.2	266.2	229.7	217.7	234.1	238.7
	SD	51.11	80.37	49.92	77.56	56.03	46.67
NRBC	Mean	0.0	0.0	0.0	0.0	0.3	0.0
	SD	0.00	0.00	0.00	0.00	0.95	0.00
HGB	Mean	17.3	17.3	17.1	16.9	16.3*	16.8
	SD	0.27	0.41	0.30	0.33	0.81	0.69
HCT	Mean	49.9	49.3	49.0	48.3	46.9*	48.2
	SD	1.56	1.66	1.46	0.92	2.45	2.07
MCV	Mean	54.3	54.5	54.3	54.5	54.8	54.5
	SD	0.55	0.51	0.47	0.58	0.82	0.55
MCH	Mean	18.8	19.2	19.0	19.1	19.1	19.0
	SD	0.54	0.25	0.42	0.40	0.36	0.49
MCHC	Mean	34.7	35.2	34.9	35.0	34.8	34.9
	SD	0.84	0.51	0.67	0.80	0.65	0.86

<sup>a</sup> 1 = Filtered Air (0 ppm); 2 = HMDS (50 ppm); 3 = HMDS (200 ppm);  
 4 = HMDS (1000 ppm); 5 = HMDS (5000 ppm); 6 = Intra-assay control (0 ppm)

<sup>b</sup> N = 10

\* Significantly different from Filtered Air control, p < 0.05

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

Table 12 (cont.).

Hematology Summary Data - Males

Assay	Parameter	Group <sup>a</sup>					
		1	2	3	4	5	6
MAT NEU	Mean <sup>b</sup>	1.9	1.9	1.8	1.8	2.2	0.9*
	SD	0.52	0.45	0.47	0.38	0.55	0.32
LYMPH	Mean	8.1	8.9	8.0	8.0	7.9	3.9*
	SD	0.95	2.01	1.15	1.03	1.04	0.85
MONO	Mean	0.2	0.1	0.1	0.2	0.1	0.1
	SD	0.16	0.07	0.12	0.12	0.16	0.05
EOSIN	Mean	0.1	0.0	0.1	0.0	0.1	0.0
	SD	0.07	0.05	0.05	0.07	0.07	0.05
BASO	Mean	0.0	0.0	0.0	0.0	0.0	0.0
	SD	0.00	0.00	0.00	0.00	0.00	0.00
IMM NEU	Mean	0.0	0.0	0.0	0.0	0.0	0.0
	SD	0.00	0.04	0.00	0.08	0.06	0.03

<sup>a</sup> 1 = Filtered Air (0 ppm); 2 = HMDS (50 ppm); 3 = HMDS (200 ppm);  
<sup>b</sup> 4 = HMDS (1000 ppm); 5 = HMDS (5000 ppm); 6 = Intra-assay control (0 ppm)

\* N = 10

\* Significantly different from Filtered Air control, p ≤ 0.05

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
 Whole-Body Inhalation Exposure in Fischer 344 Rats

Table 12 (cont.).

Hematology Summary Data - Females

Assay <u>Parameter</u>		Group <sup>a</sup>					
		<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>
RBC	Mean <sup>b</sup>	8.48	8.34	8.34	8.51	8.29	8.22
	SD	0.313	0.37	0.533	0.402	0.501	0.319
WBC	Mean	9.0	8.8	9.8	9.6	10.1	3.8*
	SD	1.75	1.05	1.33	1.18	1.65	0.37
PLT	Mean	718	742	734	742	750	637*
	SD	90.2	63.4	33.6	40.5	29.6	44.4
RETPC	Mean	3.0	2.9	2.8	3.0	2.8	2.6
	SD	0.49	0.24	0.40	0.60	0.46	0.51
RETABS	Mean	253.0	241.4	233.1	251.0	232.9	209.6
	SD	39.97	24.61	34.26	52.55	35.41	42.92
NRBC	Mean	0.2	0.2	0.2	0.2	0.2	0.2
	SD	0.42	0.63	0.42	0.42	0.63	0.63
HGB	Mean	16.8	16.7	16.6	16.8	16.4	16.2
	SD	0.46	0.58	0.72	0.54	0.96	0.52
HCT	Mean	48.8	48.1	47.9	49.3	48.3	47.3
	SD	1.76	1.94	2.85	2.16	2.66	2
MCV	Mean	57.6	57.6	57.5	57.9	58.3	57.5
	SD	0.59	0.63	0.96	0.58	0.79	0.99
MCH	Mean	19.8	20.0	19.9	19.8	19.8	19.7
	SD	0.54	0.50	0.58	0.43	0.30	0.30
MCHC	Mean	34.4	34.6	34.6	34.2	34.0	34.2
	SD	0.88	0.79	1.01	0.82	0.63	0.81

<sup>a</sup> 1 = Filtered Air (0 ppm); 2 = HMDS (50 ppm); 3 = HMDS (200 ppm);  
 4 = HMDS (1000 ppm); 5 = HMDS (5000 ppm); 6 = Intra-assay control (0 ppm)

<sup>b</sup> N = 10

\* Significantly different from Filtered Air control, p ≤ 0.05

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

Table 12 (cont.).

Hematology Summary Data - Females

Assay	Parameter	Group <sup>a</sup>					
		1	2	3	4	5	6
MAT NEU	Mean <sup>b</sup>	1.7	1.8	2.0	1.7	1.7	1.0*
	SD	0.62	0.38	0.50	0.71	0.16	0.31
LYMPH	Mean	7.1	6.8	7.7	7.7	8.2	2.7*
	SD	1.34	0.81	1.14	0.97	1.57	0.35
MONO	Mean	0.1	0.1	0.1	0.1	0.1	0.0*
	SD	0.13	0.11	0.08	0.11	0.07	0.03
EOSIN	Mean	0.1	0.1	0.1	0.1	0.1	0.0
	SD	0.12	0.09	0.11	0.10	0.07	0.05
BASO	Mean	0.0	0.0	0.0	0.0	0.0	0.0
	SD	0.00	0.00	0.00	0.00	0.00	0.00
IMM NEU	Mean	0.0	0.0	0.0	0.0	0.0	0.0
	SD	0.00	0.00	0.00	0.00	0.00	0.00

<sup>a</sup> 1 = Filtered Air (0 ppm); 2 = HMDS (50 ppm); 3 = HMDS (200 ppm);  
4 = HMDS (1000 ppm); 5 = HMDS (5000 ppm); 6 = Intra-assay control (0 ppm)

<sup>b</sup> N = 10

\* Significantly different from Filtered Air control, p ≤ 0.05

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
 Whole-Body Inhalation Exposure in Fischer 344 Rats

Table 13.

Clinical Chemistry Summary Data - Males

<u>Assay</u>	<u>Parameter</u>	Group <sup>a</sup>					
		<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>
ALP	Mean <sup>b</sup>	177	171	171	168	174	181
	SD	7.5	9.3	9.4	6.2	64.2	13.1
ALT	Mean	43	42	40	39	39	54*
	SD	3.3	3.6	1.5	5.2	4.0	12.9
AST	Mean	92	90	91	87	90	105*
	SD	10.0	10.1	6.6	8.4	7.8	17.3
GGT	Mean	1	1	2	1	2	1
	SD	0.9	1.2	0.8	0.9	1.4	1.2
TBIL	Mean	0.37	0.35	0.33	0.30	0.32	0.38
	SD	0.101	0.078	0.090	0.092	0.062	0.140
BUN	Mean	17	16	16	18	20*	17
	SD	1.0	1.0	1.4	1.1	2.5	1.2
CREA	Mean	0.5	0.5	0.5	0.6	0.6	0.5
	SD	0.08	0.08	0.12	0.08	0.10	0.06
GLU	Mean	107	116	103	107	115	115
	SD	28.4	34.5	20.1	15.6	35.3	22.0
TP	Mean	6.7	6.8	6.7	6.7	6.9	6.7
	SD	0.23	0.24	0.16	0.27	0.24	0.18
CHOL	Mean	20	22	21	25*	30*	24*
	SD	1.2	2.1	2.3	2.1	4.9	1.5

<sup>a</sup> 1 = Filtered Air (0 ppm); 2 = HMDS (50 ppm); 3 = HMDS (200 ppm);  
 4 = HMDS (1000 ppm); 5 = HMDS (5000 ppm); 6 = Intra-assay control (0 ppm)

<sup>b</sup> N = 10

\* Significantly different from Filtered Air control, p ≤ 0.05

IT RESEARCH INSTITUTE

50 of 188

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous Whole-Body Inhalation Exposure in Fischer 344 Rats

Table 13 (cont.)

Clinical Chemistry Summary Data - Females

Assay	<u>Parameter</u>	Group <sup>a</sup>					
		<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>
ALP	Mean <sup>b</sup>	121	122	133	122	122	129
	SD	13.9	12.5	11.8	13.8	10.1	18.3
ALT	Mean	35	36	36	34	34	47*
	SD	2.8	5.3	4.8	3.9	3.9	9.8
AST	Mean	84	85	90	84	80	97
	SD	10.0	12.9	15.4	10.9	11.8	15.5
GGT	Mean	1	2	2	2	2	1
	SD	0.8	1.4	1.3	0.9	1	1.1
TBIL	Mean	0.46	0.46	0.53	0.51	0.51	0.40
	SD	0.087	0.060	0.118	0.131	0.094	0.109
BUN	Mean	18	17	18	17	18	17
	SD	1.1	1.2	0.9	1.1	1.4	1.2
CREA	Mean	0.5	0.6	0.5	0.6	0.5	0.5
	SD	0.05	0.08	0.07	0.05	0.11	0.08
GLU	Mean	94	89	97	96	95	90
	SD	14.1	7.3	11.7	8.0	10.2	5.6
TP	Mean	6.8	6.8	6.7	6.8	6.8	6.8
	SD	0.35	0.31	0.28	0.27	0.24	0.19
CHOL	Mean	40	43	41	42	47*	40
	SD	4.1	5	5.7	3.2	5.1	3.3

<sup>a</sup> 1 = Filtered Air (0 ppm); 2 = HMDS (50 ppm); 3 = HMDS (200 ppm);  
 4 = HMDS (1000 ppm); 5 = HMDS (5000 ppm); 6 = Intra-assay control (0 ppm)

<sup>b</sup> N = 10

\* Significantly different from Filtered Air control, p ≤ 0.05

Table 14.  
Lymphoid Organ Cellularity and Viability Summary Data - Males

<u>Group<sup>a</sup></u>		Splenocyte <u>Viability %</u>	Viable <u>Cells/spleen</u>	Thymus <u>Viability %</u>	Viable <u>Cells/thymus</u>
1	Mean <sup>b</sup>	92	$2.50 \times 10^8$	97	$4.20 \times 10^7$
	SD	3.3	$5.32 \times 10^7$	2.9	$1.12 \times 10^7$
	SEM	1.1	$1.68 \times 10^7$	0.9	$3.55 \times 10^6$
2	Mean	90	$2.71 \times 10^8$	96	$5.07 \times 10^7*$
	SD	3.6	$4.56 \times 10^7$	2.5	$1.24 \times 10^7$
	SEM	1.1	$1.44 \times 10^7$	0.8	$3.91 \times 10^6$
3	Mean	88	$2.28 \times 10^8$	97	$3.71 \times 10^7$
	SD	7.5	$2.82 \times 10^7$	2.9	$9.85 \times 10^6$
	SEM	2.4	$8.92 \times 10^6$	0.9	$3.12 \times 10^6$
4	Mean	92	$2.51 \times 10^8$	96	$3.80 \times 10^7$
	SD	2.5	$6.02 \times 10^7$	2.6	$6.05 \times 10^6$
	SEM	0.8	$1.90 \times 10^7$	0.8	$1.91 \times 10^6$
5	Mean	91	$2.70 \times 10^8$	97	$3.45 \times 10^7$
	SD	4.5	$4.39 \times 10^7$	2.1	$6.47 \times 10^6$
	SEM	1.4	$1.39 \times 10^7$	0.6	$2.05 \times 10^6$
6	Mean	92	$2.13 \times 10^8$	96	$3.62 \times 10^7$
	SD	6.4	$4.81 \times 10^7$	3.1	$5.93 \times 10^6$
	SEM	2.0	$1.52 \times 10^7$	1.0	$1.87 \times 10^6$

<sup>a</sup> 1 = Filtered Air (0 ppm); 2 = HMDS (50 ppm); 3 = HMDS (200 ppm);  
4 = HMDS (1000 ppm); 5 = HMDS (5000 ppm); 6 = Intra-assay control (0 ppm)

<sup>b</sup> N = 10

\* Significantly different from Filtered Air control, p ≤ 0.05

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

Table 14 (cont.).

Lymphoid Organ Cellularity and Viability Summary Data - Females

Group <sup>a</sup>		Splenocyte	Viable	Thymus	Viable
		Viability %	Cells/spleen	Viability %	Cells/thymus
1	Mean <sup>b</sup>	95	$1.82 \times 10^8$	97	$3.98 \times 10^7$
	SD	2.6	$3.60 \times 10^7$	3.4	$6.36 \times 10^6$
	SEM	0.8	$1.14 \times 10^7$	1.1	$2.01 \times 10^6$
2	Mean	92	$1.95 \times 10^8$	96	$4.36 \times 10^7$
	SD	3.7	$4.16 \times 10^7$	3.2	$8.28 \times 10^6$
	SEM	1.2	$1.31 \times 10^7$	1.0	$2.62 \times 10^6$
3	Mean	92	$1.84 \times 10^8$	97	$4.13 \times 10^7$
	SD	3.9	$1.55 \times 10^7$	2.7	$5.79 \times 10^6$
	SEM	1.2	$4.91 \times 10^6$	0.8	$1.83 \times 10^6$
4	Mean	91	$1.98 \times 10^8$	95	$4.01 \times 10^7$
	SD	2.5	$4.36 \times 10^7$	2.3	$1.14 \times 10^7$
	SEM	0.8	$1.38 \times 10^7$	0.7	$3.60 \times 10^6$
5	Mean	93	$1.75 \times 10^8$	96	$4.16 \times 10^7$
	SD	4.0	$2.26 \times 10^7$	3.4	$8.04 \times 10^6$
	SEM	1.3	$7.14 \times 10^6$	1.1	$2.54 \times 10^6$
6	Mean	93	$1.46 \times 10^8*$	94	$4.33 \times 10^7$
	SD	3.8	$2.02 \times 10^7$	3.3	$8.00 \times 10^6$
	SEM	1.2	$6.39 \times 10^6$	1.1	$2.53 \times 10^6$

<sup>a</sup> 1 = Filtered Air (0 ppm); 2 = HMDS (50 ppm); 3 = HMDS (200 ppm);  
4 = HMDS (1000 ppm); 5 = HMDS (5000 ppm); 6 = Intra-assay control (0 ppm)

<sup>b</sup> N = 10

\* Significantly different from Filtered Air control, p ≤ 0.05

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous Whole-Body Inhalation Exposure in Fischer 344 Rats

Table 15.  
Natural Killer Cell Activity Summary Data - Males

Group <sup>a</sup>		Natural Killer Cell Activity <sup>b</sup>		
		100:1 <sup>c</sup>	33:1	11:1
1	Mean <sup>d</sup>	58.81	31.73	24.94
	SD	18.998	8.485	22.258
	SEM	6.008	2.683	7.038
2	Mean	45.06	43.86	12.17
	SD	14.050	30.104	3.227
	SEM	4.443	9.520	1.020
3	Mean	59.10	32.78	14.60
	SD	14.297	6.956	4.261
	SEM	4.521	2.200	1.348
4	Mean	51.92	37.13	17.99
	SD	20.518	12.680	5.659
	SEM	6.488	4.010	1.790
5	Mean	58.76	38.65	21.68
	SD	15.232	12.019	3.663
	SEM	4.817	3.801	1.158
6	Mean	25.70*	20.09*	14.34
	SD	3.033	6.351	3.516
	SEM	0.959	2.009	1.112

<sup>a</sup> 1 = Filtered Air (0 ppm); 2 = HMDS (50 ppm); 3 = HMDS (200 ppm);  
4 = HMDS (1000 ppm); 5 = HMDS (5000 ppm); 6 = Intra-assay control (0 ppm)

<sup>b</sup> Percent release of label ( $\text{Cr}^{51}$ ), corrected

<sup>c</sup> Effector:Target cell ratio

<sup>d</sup> N = 10

\* Significantly different from Filtered Air control,  $p \leq 0.05$

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

Table 15 (cont.).

Natural Killer Cell Activity Summary Data - Females

Group <sup>a</sup>		Natural Killer Cell Activity <sup>b</sup>		
		<u>100:1<sup>c</sup></u>	<u>33:1</u>	<u>11:1</u>
1	Mean <sup>d</sup>	35.80	23.09	9.75
	SD	11.516	8.729	4.455
	SEM	3.642	2.760	1.409
2	Mean	36.00	20.80	11.53
	SD	8.272	4.308	5.101
	SEM	2.616	1.362	1.613
3	Mean	37.93	21.19	8.04
	SD	5.710	4.649	2.071
	SEM	1.806	1.470	0.655
4	Mean	40.44	22.72	8.96
	SD	5.131	4.369	3.439
	SEM	1.622	1.382	1.087
5	Mean	43.83	24.70	11.63
	SD	4.872	5.020	2.536
	SEM	1.541	1.588	0.802
6	Mean	14.22*	8.14*	5.22*
	SD	4.449	2.275	2.781
	SEM	1.407	0.719	0.879

<sup>a</sup> 1 = Filtered Air (0 ppm); 2 = HMDS (50 ppm); 3 = HMDS (200 ppm);  
4 = HMDS (1000 ppm); 5 = HMDS (5000 ppm); 6 = Intra-assay control (0 ppm)

<sup>b</sup> Percent release of label ( $\text{Cr}^{51}$ ), corrected

<sup>c</sup> Effector:Target cell ratio

<sup>d</sup> N = 10

\* Significantly different from Filtered Air control,  $p \leq 0.05$

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous Whole-Body Inhalation Exposure in Fischer 344 Rats

Table 16.  
 Antibody Forming Cell (AFC) Assay Summary Data - Males

Group <sup>a</sup>		Body Weight(g)	Spleen Weight(g)	Splenocyte Viability (%)	Viable Cells/ml	AFC/1x10 <sup>6</sup> Cells	AFC/Spleen
1	Mean <sup>b</sup>	239	0.5507	93	3.33x10 <sup>7</sup>	530	1.83x10 <sup>5</sup>
	SD	10.4	0.07986	3.8	5.76x10 <sup>6</sup>	238.0	1.05x10 <sup>5</sup>
	SEM	3.3	0.02525	1.2	1.82x10 <sup>6</sup>	75.3	3.33x10 <sup>4</sup>
2	Mean	242	0.5249	94	2.92x10 <sup>7</sup>	405	1.18x10 <sup>5</sup>
	SD	20.5	0.04051	3.4	7.44x10 <sup>6</sup>	220.0	7.36x10 <sup>4</sup>
	SEM	6.5	0.01281	1.1	2.35x10 <sup>6</sup>	69.6	2.33x10 <sup>4</sup>
3	Mean	243	0.5486	92	2.69x10 <sup>7</sup>	632	1.62x10 <sup>5</sup>
	SD	13.8	0.03975	5.1	1.06x10 <sup>7</sup>	394.2	1.19x10 <sup>5</sup>
	SEM	4.4	0.01257	1.6	3.34x10 <sup>6</sup>	124.6	3.78x10 <sup>4</sup>
4	Mean	249	0.5838	94	2.99x10 <sup>7</sup>	473	1.36x10 <sup>5</sup>
	SD	14.1	0.05384	2.5	6.57x10 <sup>6</sup>	402.6	1.23x10 <sup>5</sup>
	SEM	4.5	0.01703	0.8	2.08x10 <sup>6</sup>	127.3	3.90x10 <sup>4</sup>
5	Mean	242	0.5938	90 <sup>c</sup>	2.32x10 <sup>7c</sup>	1170 <sup>c*</sup>	2.73x10 <sup>5</sup>
	SD	11.3	0.05651	8.6	6.21x10 <sup>6</sup>	835.2	2.55x10 <sup>5</sup>
	SEM	3.6	0.01787	2.9	2.07x10 <sup>6</sup>	278.4	8.06x10 <sup>4</sup>
6	Mean	221	0.2910*	96*	4.28x10 <sup>6*</sup>	0*	0.00*
	SD	14.2	0.03269	2.1	8.70x10 <sup>5</sup>	0.0	0.00
	SEM	4.5	0.01034	0.7	2.75x10 <sup>5</sup>	0.0	0.00

<sup>a</sup> 1 = Filtered Air (0 ppm); 2 = HMDS (50 ppm); 3 = HMDS (200 ppm);

<sup>b</sup> 4 = HMDS (1000 ppm); 5 = HMDS (5000 ppm); 6 = Intra-assay control (0 ppm)

<sup>b</sup> N = 10, unless noted; N = 9

\* Significantly different from Filtered Air control, p < 0.05

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous Whole-Body Inhalation Exposure in Fischer 344 Rats

Table 16 (cont.).  
 Antibody Forming Cell (AFC) Assay Summary Data - Females

<u>Group<sup>a</sup></u>	<u>Mean<sup>b</sup></u>	<u>SD</u>	<u>SEM</u>	<u>Body Weight (g)</u>	<u>Spleen Weight (g)</u>	<u>Splenocyte Viability (%)</u>	<u>Viable Cells/ml</u>	<u>AFC/ 1x10<sup>6</sup> Cells</u>	<u>AFC /Spleen</u>
1	Mean <sup>b</sup>	162	0.3904	93	2.15x10 <sup>7</sup>	354	7.60x10 <sup>4</sup>	3.10x10 <sup>4</sup>	9.80x10 <sup>3</sup>
	SD	5.3	0.01599	3.53	2.61x10 <sup>6</sup>	131.0			
	SEM	1.7	0.00506	1.12	8.25x10 <sup>5</sup>	41.4			
2	Mean <sup>b</sup>	157	0.3966	95	2.12x10 <sup>7</sup>	315	6.35x10 <sup>4</sup>	3.81x10 <sup>4</sup>	1.20x10 <sup>4</sup>
	SD	6.9	0.02891	1.96	3.33x10 <sup>6</sup>	188.6			
	SEM	2.2	0.00914	0.62	1.05x10 <sup>6</sup>	59.6			
3	Mean <sup>b</sup>	159	0.4065	95	1.85x10 <sup>7*</sup>	313	5.45x10 <sup>4</sup>	3.99x10 <sup>4</sup>	1.26x10 <sup>4</sup>
	SD	6.8	0.01932	3.43	2.01x10 <sup>6</sup>	275.2			
	SEM	2.2	0.00611	1.09	6.37x10 <sup>5</sup>	87.0			
4	Mean <sup>b</sup>	159	0.4148	96	1.94x10 <sup>7</sup>	266	5.35x10 <sup>4</sup>	3.68x10 <sup>4</sup>	1.16x10 <sup>4</sup>
	SD	7.5	0.03249	2.10	2.23x10 <sup>6</sup>	172.9			
	SEM	2.4	0.01028	0.66	7.05x10 <sup>5</sup>	54.7			
5	Mean <sup>b</sup>	157	0.4155	97	1.80x10 <sup>7*</sup>	431	7.95x10 <sup>4</sup>	6.43x10 <sup>4</sup>	2.03x10 <sup>4</sup>
	SD	3.5	0.01730	2.36	2.59x10 <sup>6</sup>	366.5			
	SEM	1.1	0.00547	0.75	8.20x10 <sup>5</sup>	115.9			
6	Mean <sup>b</sup>	147	0.2319*	97*	4.07x10 <sup>6*</sup>	0*	0.00*	0.00	0.00
	SD	6.0	0.03121	2.18	8.90x10 <sup>5</sup>	0.0	0.00		
	SEM	1.9	0.00987	0.69	2.82x10 <sup>5</sup>	0.0	0.00		

<sup>a</sup> 1 = Filtered Air (0 ppm); 2 = HMDS (50 ppm); 3 = HMDS (200 ppm);  
 4 = HMDS (1000 ppm); 5 = HMDS (5000 ppm); 6 = Intra-assay control (0 ppm)

<sup>b</sup> N = 10

\* Significantly different from Filtered Air control, p ≤ 0.05

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous Whole-Body Inhalation Exposure in Fischer 344 Rats

Table 17.  
 Spleen Lymphocyte Distribution Summary Data

Group <sup>a</sup>	Total Lymphocytes - Present Cell Type									
	CD3+ <sup>b</sup> Total FITC	NK Total FITC	CD8+ Total PE	CD3+ CD8-	CD45R+ Total PE	CD4+ B Cells	CD45R+ CD45R-	CD4+ Mono & MΦ <sup>c</sup> Total FITC	CD4+ CD45R-	
1	Mean <sup>d</sup>	34.5	3.6	16.2	18.2	54.6	49.7	4.1	24.4	20.3
		3.77	0.55	1.74	2.26	4.17	4.34	0.72	1.37	1.61
2	Mean	34.8	3.7	16.2	18.4	54.5	49.1	4.2	24.5	20.5
		3.63	0.81	1.84	2.00	3.84	4.46	0.74	1.52	1.69
3	Mean	34.7	3.5	15.9	18.7	54.1	49.4	4.0	24.2	20.3
		5.32	0.67	2.81	2.78	4.80	4.89	0.62	2.15	1.95
4	Mean	34.5	3.5	16.0	18.4	53.6	48.3	4.2	24.9	20.6
		3.51	0.85	1.82	1.87	4.03	4.66	0.87	1.71	1.74
5	Mean	34.8	3.5	16.2	18.4	53.9	48.9	3.9	23.8	20.2
		3.00	0.83	1.75	1.76	3.55	4.11	0.67	1.41	1.08

<sup>a</sup> 1 = Filtered Air (0 ppm); 2 = HMDS (50 ppm); 3 = HMDS (200 ppm); 4 = HMDS (1000 ppm); 5 = HMDS (5000 ppm)

<sup>b</sup> Cell surface marker: + = marker present; - = marker absent

<sup>c</sup> Mono & MΦ = Monocytes and Macrophages

<sup>d</sup> N = 20

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous Whole-Body Inhalation Exposure in Fischer 344 Rats

Table 17 (cont.).

Spleen Lymphocyte Distribution Summary Data

Group <sup>a</sup>	Total FITC	NK	CD8+	Small Lymphocytes- Percent Cell Type				CD4+ CD45R+	CD4+ CD45R-	
				CD3+	CD3+ CD8+	CD45R+ Total PE	CD45R+ B Cells			
				Total FITC	Mono & MΦ <sup>c</sup> Total FITC	Mono & MΦ <sup>c</sup> CD45R+	Mono & MΦ <sup>c</sup> CD45R-			
1	Mean <sup>d</sup>	41.1	3.9	19.2	21.8	54.0	51.4	2.2	26.9	24.9
	SD	4.08	0.83	1.92	2.76	3.74	3.81	0.60	1.40	1.43
2	Mean	41.1	4.1	19.0	22.0	53.7	50.9	2.1	27.4	25.5
	SD	3.73	0.90	1.97	2.43	3.29	4.02	0.59	1.55	1.70
3	Mean	41.4	3.9	19.0	22.3	53.0	50.8	2.2	27.0	25.1
	SD	4.80	0.83	2.63	2.71	4.69	4.60	0.71	2.51	2.24
4	Mean	41.5	4.0	19.3	22.2	52.9	50.4	2.1	27.6	25.6
	SD	3.44	0.88	2.05	1.80	3.84	4.33	0.66	1.96	1.95
5	Mean	41.6	4.1	19.3	22.2	53.3	50.8	1.9	27.0	25.3
	SD	3.23	0.94	2.18	1.55	3.48	3.88	0.38	1.40	1.35

<sup>a</sup> 1 = Filtered Air (0 ppm); 2 = HMDS (50 ppm); 3 = HMDS (200 ppm); 4 = HMDS (1000 ppm); 5 = HMDS (5000 ppm)

<sup>b</sup> Cell surface marker: + = marker present; - = marker absent

<sup>c</sup> Mono & MΦ = Monocytes and Macrophages

<sup>d</sup> N = 20

DC Study No. - 9027  
External No. - L08710-1

DC Report No. - 1999-I0000-47623  
Security - Internal

**Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats**

---

**VII. APPENDICES**

DC Study No. - 9027  
External No. - L08710-1

DC Report No. - 1999-I0000-47623  
Security - Internal

**Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats**

---

**Appendix A - Exposure Data**

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix A - Exposure Data

Daily Inhalation Exposure Concentrations Determined by Gas Chromatography (GC)

<u>Exposure Target Concentration</u>	<u>Study Day</u>	<u>Daily Average (ppm)</u>	<u>Daily SD (ppm)</u>	<u>Daily RSD (%)</u>	<u>Mean /Target (%)</u>	<u>Nominal Concentration (g/l)</u>
HMDS 50 ppm	1	52.7	4.56	8.65	105.3	0.29
	2	49.8	0.94	1.88	99.5	0.29
	3	52.0	1.77	3.40	104.0	0.27
	4	49.8	2.35	4.73	99.6	0.26
	5	52.6	1.50	2.84	105.2	-
	6	49.8	0.56	1.12	99.6	0.32
	7	49.1	1.43	2.91	98.2	0.31
	8	49.6	2.54	5.12	99.2	0.31
	9	52.6	1.00	1.90	105.2	0.31
	10	51.6	0.49	0.94	103.2	0.31
	11	51.3	0.87	1.70	102.6	0.31
	12	51.4	1.42	2.76	102.8	0.32
	13	51.5	0.52	1.01	103.0	0.32
	14	50.8	1.64	3.23	101.6	0.33
	15	52.3	1.11	2.12	104.6	0.33
	16	51.7	1.40	2.71	103.4	0.31
	17	49.4	1.48	3.00	98.8	0.31
	18	51.0	0.45	0.90	102.0	0.32
	19	51.6	0.72	1.40	103.2	0.32
	20	52.2	1.01	1.93	104.4	0.33
	21	53.3	0.89	1.67	106.6	0.34
	22	50.2	1.17	2.33	100.4	0.32
	23	49.0	0.78	1.59	98.0	0.32
	24	50.7	1.61	3.18	101.4	0.32
	25	52.9	1.39	2.63	105.8	0.32
	26	51.8	1.38	2.66	103.6	0.32
	27	52.1	1.44	2.76	104.2	0.32
	28	53.0	0.92	1.74	106.0	0.32
	29	48.6	2.38	4.90	97.2	0.30
	30	47.6	2.43	5.10	95.2	0.31
	31	49.8	4.10	8.23	99.6	0.33
	32	49.8	3.65	7.33	99.6	0.29
	33	49.0	2.47	5.04	98.0	0.30
	34	50.1	1.65	3.29	100.2	0.31
	35	49.3	1.53	3.10	98.6	0.30
Mean		50.9			0.31	
SD		1.46			0.016	
% RSD		2.88			5.01	
N		35			34	
Minimum		47.6			0.26	
Maximum		53.3			0.34	

-- = No data, malfunction in environmental data collection system

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix A - Exposure Data

Daily Inhalation Exposure Concentrations Determined by Gas Chromatography (GC)

Exposure Target Concentration	Study Day	Daily Average (ppm)	Daily SD (ppm)	Daily RSD (%)	Mean /Target (%)	Nominal Concentration (g/l)
HMDS 200 ppm	1	219	38.60	17.59	109.5	1.09
	2	193	46.38	24.00	96.6	0.93
	3	198	1.50	0.80	99.2	0.92
	4	192	3.00	1.60	96.0	0.94
	5	214	1.00	0.50	107.0	-
	6	206	1.50	0.70	103.0	1.08
	7	206	5.70	2.80	103.0	0.98
	8	208	11.60	5.60	104.0	1.00
	9	195	2.20	1.10	97.5	0.92
	10	200	2.10	1.10	100.0	0.94
	11	201	1.40	0.70	100.5	0.96
	12	192	1.60	0.80	96.0	0.89
	13	196	1.90	1.00	98.0	0.92
	14	199	3.10	1.60	99.5	0.95
	15	211	1.80	0.90	105.5	0.99
	16	206	1.40	0.70	102.8	0.97
	17	198	1.50	0.80	99.0	0.95
	18	212	2.30	1.10	106.0	0.97
	19	193	1.90	1.00	96.5	0.95
	20	199	5.10	2.60	99.5	0.99
	21	199	2.80	1.40	99.5	0.98
	22	196	10.00	5.10	98.0	0.96
	23	192	2.00	1.00	96.0	0.96
	24	193	1.90	1.00	96.5	0.96
	25	215	1.90	0.90	107.5	0.96
	26	187	7.50	4.00	93.5	0.97
	27	212	7.30	3.40	106.0	0.94
	28	210	3.40	1.60	105.0	1.01
	29	200	8.40	4.20	100.0	0.89
	30	205	1.20	0.60	102.5	0.92
	31	194	1.10	0.60	97.0	0.88
	32	199	2.70	1.40	99.5	0.89
	33	216	3.20	1.50	108.0	0.97
	34	203	1.30	0.60	101.5	0.92
	35	189	0.80	0.40	94.5	0.86
Mean		201			0.95	
SD		8.4			0.049	
% RSD		4.2			5.17	
N		35			34	
Minimum		187			0.86	
Maximum		219			1.09	

-- = No data, malfunction in environmental data collection system

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix A - Exposure Data

Daily Inhalation Exposure Concentrations Determined by Gas Chromatography (GC)

Exposure Target Concentration	Study Day	Daily Average (ppm)	Daily SD (ppm)	Daily RSD (%)	Mean /Target (%)	Nominal Concentration (g/l)
HMDS	1	1134	73.20	6.50	113.4	5.77
1000 ppm	2	1066	47.50	4.50	106.6	4.86
	3	945	55.00	5.80	94.5	4.76
	4	922	95.70	10.40	92.2	6.12
	5	763	211.80	27.80	76.3	10.97
	6	991	56.70	5.70	99.1	11.80
	7	992	31.30	3.20	99.2	11.55
	8	1046	93.90	9.00	104.6	10.26
	9	985	67.40	6.80	98.5	9.19
	10	1082	17.70	1.60	108.2	9.67
	11	1021	35.10	3.40	102.1	9.22
	12	1016	30.30	2.98	101.6	9.16
	13	888	332.50	37.50	88.8	8.14
	14	1043	8.18	0.78	104.3	9.01
	15	1063	16.80	1.60	106.3	9.04
	16	1023	14.00	1.40	102.3	8.53
	17	1014	9.40	0.90	101.4	8.48
	18	1027	10.60	1.00	102.7	8.43
	19	1021	9.40	0.90	102.1	8.56
	20	1027	8.90	0.90	102.7	8.53
	21	1032	7.00	0.70	103.2	8.57
	22	1044	11.30	1.10	104.4	8.52
	23	1021	10.50	1.00	102.1	8.30
	24	997	11.50	1.20	99.7	7.95
	25	1016	19.00	1.90	101.6	7.96
	26	1008	18.70	1.90	100.8	7.75
	27	1007	7.80	0.80	100.7	7.72
	28	1021	10.60	1.00	102.1	7.83
	29	998	6.80	0.70	99.8	7.93
	30	968	13.00	1.30	96.8	7.68
	31	995	10.00	1.00	99.5	7.74
	32	976	8.50	0.90	97.6	7.77
	33	1018	14.00	1.40	101.8	7.97
	34	1043	14.70	1.40	104.3	7.91
	35	1054	11.30	1.10	105.4	7.82
Mean		1008			8.33	
Std. Dev.		61.2			1.511	
% RSD		6.1			18.14	
N		35			35	
Minimum		763			4.76	
Maximum		1134			11.80	

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix A - Exposure Data

Daily Inhalation Exposure Concentrations Determined by Gas Chromatography (GC)

Exposure Target Concentration	Study Day	Daily Average (ppm)	Daily SD (ppm)	Daily RSD (%)	Mean /Target (%)	Nominal Concentration (g/l)
HMDS 5000 ppm	1	4986	148.60	3.00	99.7	30.57
	2	5307	97.20	1.80	106.1	30.88
	3	5095	203.90	4.00	101.9	28.80
	4	5102	303.50	6.00	102.0	28.28
	5	4359	490.50	11.30	87.2	46.08
	6	4837	219.90	4.60	96.7	52.70
	7	5143	96.40	1.90	102.9	49.96
	8	4886	160.50	3.30	97.7	29.79
	9	4868	53.30	1.10	97.4	31.36
	10	4853	40.90	0.80	97.1	29.55
	11	4967	157.90	3.20	99.3	30.84
	12	5025	67.70	1.30	100.5	31.80
	13	5076	47.00	0.93	101.5	31.27
	14	5070	54.30	1.10	101.4	31.53
	15	5156	37.20	0.70	103.1	30.55
	16	4866	46.90	1.00	97.3	29.04
	17	4994	26.70	0.50	99.9	29.78
	18	5013	43.40	0.90	100.3	29.65
	19	5021	43.40	0.90	100.4	30.33
	20	5042	31.10	0.60	100.8	30.43
	21	5065	29.60	0.60	101.3	29.72
	22	5002	26.40	0.50	100.0	29.69
	23	4937	27.00	0.50	98.7	29.44
	24	4944	48.60	1.00	98.9	29.44
	25	5056	33.10	0.70	101.1	29.51
	26	5024	84.60	1.70	100.5	29.24
	27	4997	101.10	2.00	99.9	29.24
	28	5023	40.60	0.80	100.5	29.26
	29	4955	23.40	0.50	99.1	29.07
	30	4872	49.90	1.00	97.4	28.48
	31	4883	14.20	0.30	97.7	28.74
	32	4939	36.90	0.70	98.8	29.08
	33	4941	33.50	0.70	98.8	29.43
	34	4987	39.10	0.80	99.7	29.13
	35	4931	29.20	0.60	98.6	29.10
Mean		4978			31.48	
SD		145.9			5.747	
% RSD		2.9			18.26	
N		35			35	
Minimum		4359			28.28	
Maximum		5307			52.70	

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix A - Exposure Data

Daily Inhalation Exposure Chamber Conditions

Exposure Target <u>Concentration</u>	Study <u>Day</u>	Average <u>Temperature (°C)</u>	Average <u>%RH</u>	Average <u>Flow (lpm)</u>	Oxygen <u>(%)</u>
Filtered Air	1	22.0	58.3	469.4	20.9
Control	2	23.0	59.2	448.2	20.8
0 ppm	3	24.0	58.9	456.8	20.8
	4	23.3	60.3	473.8	20.7
	5	23.6	62.9	449.8	20.8
	6	22.9	60.1	496.5	20.8
	7	23.7	62.5	510.3	20.9
	8	23.7	64.2	526.1	20.8
	9	23.7	64.0	522.8	20.8
	10	23.3	63.9	552.4	20.8
	11	23.4	64.2	553.7	20.8
	12	23.2	64.0	558.0	20.8
	13	23.3	65.2	560.1	21.0
	14	23.4	62.3	523.6	20.8
	15	23.6	63.3	522.3	20.8
	16	23.1	61.8	529.0	20.7
	17	23.3	62.0	523.2	20.8
	18	23.6	61.2	523.4	20.8
	19	23.6	63.1	507.3	20.8
	20	23.4	62.2	511.7	20.8
	21	23.7	62.4	513.3	20.8
	22	23.3	61.8	526.6	20.8
	23	22.4	60.4	527.8	20.8
	24	23.3	61.5	534.7	20.8
	25	23.3	64.5	482.0	20.8
	26	23.5	65.7	493.3	20.7
	27	23.2	67.9	533.7	20.7
	28	22.9	64.6	482.0	20.8
	29	22.8	64.3	528.9	20.9
	30	21.6	65.9	503.8	20.8
	31	21.1	66.0	504.7	20.8
	32	20.1	69.4	502.4	20.8
	33	20.9	66.4	531.3	21.0
	34	20.4	60.1	537.0	21.0
	35	20.3	60.7	540.3	20.9
Average		22.9	63.0	513.1	20.8
Minimum		20.1	58.3	448.2	20.7
Maximum		24.0	69.4	560.1	21.0

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix A - Exposure Data

Daily Inhalation Exposure Chamber Conditions

Exposure <u>Target Concentration</u>	Study <u>Day</u>	Average <u>Temperature (°C)</u>	Average <u>%RH</u>	Average <u>Flow (lpm)</u>	Oxygen <u>(%)</u>
HMDS 50 ppm	1	23.7	43.2	492.0	20.5
	2	24.6	44.5	492.4	20.5
	3	24.5	45.5	499.2	20.5
	4	24.3	43.6	522.6	20.5
	5	22.6	55.0	--	20.6
	6	23.4	47.0	477.5	20.5
	7	23.9	48.4	479.1	20.5
	8	23.7	49.7	510.1	20.5
	9	23.7	49.8	511.5	20.5
	10	23.5	50.3	511.3	20.5
	11	23.5	50.9	513.2	20.5
	12	23.5	50.7	504.3	20.6
	13	23.6	50.8	504.3	20.5
	14	23.5	48.8	508.8	20.6
	15	23.7	48.4	499.7	20.6
	16	23.3	48.0	510.2	20.5
	17	23.4	47.8	512.6	20.6
	18	23.7	47.5	509.8	20.5
	19	23.6	48.9	502.4	20.5
	20	23.4	49.4	489.3	20.5
	21	23.7	49.4	486.2	20.5
	22	23.3	49.3	504.4	20.5
	23	22.6	48.8	507.7	20.5
	24	23.3	48.8	495.2	20.5
	25	23.4	50.9	480.8	20.6
	26	23.5	51.2	482.6	20.5
	27	23.4	51.4	487.6	20.5
	28	23.1	50.6	477.4	20.5
	29	22.9	49.4	456.1	20.6
	30	22.1	51.2	440.8	20.5
	31	21.9	51.0	443.5	20.6
	32	21.2	52.3	508.3	20.6
	33	21.3	52.1	502.4	20.7
	34	20.5	51.4	489.2	20.7
	35	20.5	51.2	488.8	20.6
Average		23.1	49.3	494.2	20.5
Minimum		20.5	43.2	440.8	20.5
Maximum		24.6	55.0	522.6	20.7

-- = No data, malfunction in environmental data collection system

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix A - Exposure Data

Daily Inhalation Exposure Chamber Conditions

Exposure Target <u>Concentration</u>	Study <u>Day</u>	Average <u>Temperature (°C)</u>	Average <u>%RH</u>	Average <u>Flow (lpm)</u>	Oxygen <u>(%)</u>
HMDS 200 ppm	1	23.8	44.8	471.5	20.7
	2	24.6	44.4	472.3	20.7
	3	24.4	46.2	480.1	20.6
	4	24.0	46.4	472.8	20.6
	5	22.7	56.6	--	20.6
	6	23.2	50.1	461.7	20.6
	7	23.7	51.1	508.8	20.6
	8	23.7	51.9	475.2	20.6
	9	23.7	52.6	510.5	20.6
	10	23.4	52.2	500.2	20.7
	11	23.4	52.5	488.5	20.7
	12	23.4	52.2	532.1	20.7
	13	23.5	52.6	508.9	20.7
	14	23.4	50.7	492.5	20.7
	15	23.6	51.1	473.0	20.7
	16	23.2	50.2	485.1	20.6
	17	23.3	49.4	498.3	20.7
	18	23.6	49.9	480.1	20.6
	19	23.5	51.0	496.4	20.7
	20	23.4	51.7	473.8	20.6
	21	23.6	51.5	478.1	20.7
	22	23.3	51.5	488.1	20.6
	23	22.6	50.1	486.3	20.7
	24	23.1	50.2	487.3	20.7
	25	23.2	53.5	488.2	20.7
	26	23.2	54.2	482.1	20.6
	27	23.3	54.3	495.2	20.6
	28	23.1	53.1	464.2	20.6
	29	22.9	51.9	524.4	20.7
	30	22.3	52.4	512.5	20.7
	31	21.6	53.0	534.8	20.7
	32	21.1	53.5	528.5	20.7
	33	21.5	53.5	480.0	20.8
	34	20.7	52.2	514.8	20.8
	35	20.5	52.4	544.8	20.7
Average		23.1	51.3	493.9	20.7
Minimum		20.5	44.4	461.7	20.6
Maximum		24.6	56.6	544.8	20.8

-- = No data, malfunction in environmental data collection system

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix A - Exposure Data

Daily Inhalation Exposure Chamber Conditions

Exposure <u>Target Concentration</u>	Study <u>Day</u>	Average <u>Temperature (°C)</u>	Average <u>%RH</u>	Average <u>Flow (lpm)</u>	Oxygen <u>(%)</u>
HMDS 1000 ppm	1	22.6	51.3	480.5	20.4
	2	23.1	~50.6	481.8	20.3
	3	23.3	52.1	492.7	20.2
	4	23.1	52.3	494.3	20.3
	5	23.6	52.0	462.3	20.3
	6	23.2	51.2	442.6	20.4
	7	23.6	53.2	445.8	20.4
	8	23.5	54.0	490.0	20.4
	9	23.6	54.4	483.3	20.4
	10	23.3	54.6	475.9	20.5
	11	23.3	54.7	478.5	20.4
	12	23.2	54.9	472.8	20.4
	13	23.4	55.2	467.1	20.4
	14	23.3	53.3	473.3	20.4
	15	23.4	53.7	473.0	20.4
	16	23.0	52.9	473.3	20.3
	17	23.2	52.0	472.4	20.4
	18	23.3	52.8	473.8	20.3
	19	23.3	53.5	466.3	20.4
	20	23.2	54.0	469.9	20.4
	21	23.3	54.5	466.1	20.4
	22	23.1	54.2	470.6	20.4
	23	22.4	53.8	473.1	20.4
	24	22.9	54.1	472.1	20.4
	25	23.1	56.2	468.7	20.4
	26	23.2	56.5	465.7	20.4
	27	23.0	57.2	465.1	20.4
	28	23.1	56.1	457.8	20.4
	29	22.8	54.5	452.1	20.4
	30	22.1	54.8	466.2	20.4
	31	21.8	54.3	462.8	20.4
	32	21.3	55.9	462.4	20.4
	33	21.2	55.9	453.9	20.5
	34	20.6	54.5	456.9	20.6
	35	20.8	53.6	456.8	20.4
Average		22.9	54.0	469.1	20.4
Minimum		20.6	50.6	442.6	20.2
Maximum		23.6	57.2	494.3	20.6

-- = No data, malfunction in environmental data collection system

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix A - Exposure Data

Daily Inhalation Exposure Chamber Conditions

Exposure Target <u>Concentration</u>	Study <u>Day</u>	Average <u>Temperature</u> (°C)	Average <u>%RH</u>	Average <u>Flow (lpm)</u>	Oxygen <u>(%)</u>
HMDS 5000 ppm	1	22.7	45.6	500.0	19.9
	2	23.2	47.3	502.6	19.8
	3	23.2	48.7	513.0	19.9
	4	23.2	46.8	515.3	19.8
	5	23.1	50.1	484.3	20.2
	6	23.0	46.6	467.0	20.3
	7	23.7	49.9	484.3	20.2
	8	23.7	49.8	460.3	19.9
	9	23.6	49.7	452.1	19.9
	10	23.4	50.0	478.4	20.0
	11	23.3	50.3	469.1	19.9
	12	23.3	50.1	443.0	20.0
	13	23.4	51.0	468.3	20.1
	14	23.5	48.0	460.8	20.0
	15	23.6	49.6	476.8	20.0
	16	23.2	48.0	499.1	19.9
	17	23.3	47.8	489.8	20.0
	18	23.3	48.9	487.0	19.9
	19	23.3	49.8	478.7	20.0
	20	23.3	49.9	479.3	19.9
	21	23.5	50.7	485.2	19.9
	22	23.2	49.8	492.4	19.9
	23	22.6	48.1	493.8	19.9
	24	23.1	49.1	493.5	19.9
	25	23.2	51.4	493.2	20.0
	26	23.2	51.6	498.9	19.9
	27	23.2	51.9	498.8	19.9
	28	23.1	50.7	497.3	19.9
	29	22.9	50.4	503.4	20.0
	30	22.3	51.0	510.0	20.0
	31	21.9	50.4	508.3	20.0
	32	21.4	51.8	500.1	20.0
	33	21.2	52.8	499.2	20.1
	34	20.6	50.0	500.4	20.1
	35	20.5	50.1	500.5	20.0
Average		22.9	49.7	488.1	20.0
Minimum		20.5	45.6	443.0	19.8
Maximum		23.7	52.8	515.3	20.3

-- = No data, malfunction in environmental data collection system

DC Study No. - 9027  
External No. - L08710-1

DC Report No. - 1999-I0000-47623  
Security - Internal

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

---

**Appendix B - Individual Animal Data**

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Clinical Observations

<u>Group<sup>a</sup></u>	<u>Animal</u>	<u>Sex</u>	<u>Observation</u>	<u>Onset</u>	<u>Duration</u>	<u>Frequency</u>
1	1	M	Terminal Death Normal	Day 31 Day 2	Day 31 Day 23	1 4
1	2	M	Terminal Death Normal	Day 31 Day 2	Day 31 Day 23	1 4
1	3	M	Terminal Death Normal	Day 31 Day 2	Day 31 Day 23	1 4
1	4	M	Terminal Death Normal	Day 31 Day 2	Day 31 Day 23	1 4
1	5	M	Terminal Death Normal	Day 31 Day 2	Day 31 Day 23	1 4
1	6	M	Terminal Death Normal	Day 31 Day 2	Day 31 Day 23	1 4
1	7	M	Terminal Death Normal	Day 31 Day 2	Day 31 Day 23	1 4
1	8	M	Terminal Death Normal	Day 31 Day 2	Day 31 Day 23	1 4
1	9	M	Terminal Death Normal	Day 31 Day 2	Day 31 Day 23	1 4
1	10	M	Terminal Death Normal	Day 31 Day 2	Day 31 Day 23	1 4
1	21	M	Terminal Death Normal	Day 29 Day 2	Day 29 Day 23	1 4
1	22	M	Terminal Death Normal	Day 29 Day 2	Day 29 Day 23	1 4
1	23	M	Terminal Death Normal	Day 29 Day 2	Day 29 Day 23	1 4
1	24	M	Terminal Death Normal	Day 29 Day 2	Day 29 Day 23	1 4
1	25	M	Terminal Death Normal	Day 29 Day 2	Day 29 Day 23	1 4

<sup>a</sup> 1 = Filtered Air Control (0 ppm); 2 = HMDS (50 ppm); 3 = HMDS (200 ppm);  
4 = HMDS (1000 ppm); 5 = HMDS (5000 ppm); 6 = Intra-assay control (0 ppm)

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Clinical Observations

<u>Group*</u>	<u>Animal</u>	<u>Sex</u>	<u>Observation</u>	<u>Onset</u>	<u>Duration</u>	<u>Frequency</u>
1	26	M	Terminal Death Normal	Day 29 Day 2	Day 29 Day 23	1 4
1	27	M	Terminal Death Normal	Day 29 Day 2	Day 29 Day 23	1 4
1	28	M	Terminal Death Normal	Day 29 Day 2	Day 29 Day 23	1 4
1	29	M	Terminal Death Normal	Day 29 Day 2	Day 29 Day 23	1 4
1	30	M	Terminal Death Normal	Day 29 Day 2	Day 29 Day 23	1 4
1	41	M	Terminal Death Normal	Day 29 Day 2	Day 29 Day 23	1 4
1	42	M	Terminal Death Normal	Day 29 Day 2	Day 29 Day 23	1 4
1	45	M	Terminal Death Normal	Day 30 Day 2	Day 30 Day 23	1 4
1	46	M	Terminal Death Normal	Day 30 Day 2	Day 30 Day 23	1 4
1	49	M	Terminal Death Normal	Day 31 Day 2	Day 31 Day 23	1 4
1	50	M	Terminal Death Normal	Day 31 Day 2	Day 31 Day 23	1 4
1	53	M	Terminal Death Normal	Day 35 Day 2	Day 35 Day 31	1 5
1	54	M	Terminal Death Normal	Day 35 Day 2	Day 35 Day 31	1 5
1	57	M	Terminal Death Normal	Day 36 Day 2	Day 36 Day 31	1 5
1	58	M	Terminal Death Normal	Day 36 Day 2	Day 36 Day 31	1 5

\* 1 = Filtered Air Control (0 ppm); 2 = HMDS (50 ppm); 3 = HMDS (200 ppm);  
4 = HMDS (1000 ppm); 5 = HMDS (5000 ppm); 6 = Intra-assay control (0 ppm)

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Clinical Observations

<u>Group*</u>	<u>Animal</u>	<u>Sex</u>	<u>Observation</u>	<u>Onset</u>	<u>Duration</u>	<u>Frequency</u>
1	11	F	Terminal Death Normal	Day 32 Day 3	Day 32 Day 31	1 5
1	12	F	Terminal Death Normal	Day 32 Day 3	Day 32 Day 31	1 5
1	13	F	Terminal Death Normal	Day 32 Day 3	Day 32 Day 31	1 5
1	14	F	Terminal Death Normal	Day 32 Day 3	Day 32 Day 31	1 5
1	15	F	Terminal Death Normal	Day 32 Day 3	Day 32 Day 31	1 5
1	16	F	Terminal Death Normal	Day 32 Day 3	Day 32 Day 31	1 5
1	17	F	Terminal Death Normal	Day 32 Day 3	Day 32 Day 31	1 5
1	18	F	Terminal Death Normal	Day 32 Day 3	Day 32 Day 31	1 5
1	19	F	Terminal Death Normal	Day 32 Day 3	Day 32 Day 31	1 5
1	20	F	Terminal Death Normal	Day 32 Day 3	Day 32 Day 31	1 5
1	31	F	Terminal Death Normal	Day 30 Day 3	Day 30 Day 24	1 4
1	32	F	Terminal Death Normal	Day 30 Day 3	Day 30 Day 24	1 4
1	33	F	Terminal Death Normal	Day 30 Day 3	Day 30 Day 24	1 4
1	34	F	Terminal Death Normal	Day 30 Day 3	Day 30 Day 24	1 4
1	35	F	Terminal Death Normal	Day 30 Day 3	Day 30 Day 24	1 4

\* 1 = Filtered Air Control (0 ppm); 2 = HMDS (50 ppm); 3 = HMDS (200 ppm);  
4 = HMDS (1000 ppm); 5 = HMDS (5000 ppm); 6 = Intra-assay control (0 ppm)

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Clinical Observations

<u>Group<sup>a</sup></u>	<u>Animal</u>	<u>Sex</u>	<u>Observation</u>	<u>Onset</u>	<u>Duration</u>	<u>Frequency</u>
1	36	F	Terminal Death Normal	Day 30 Day 3	Day 30 Day 24	1 4
1	37	F	Terminal Death Normal	Day 30 Day 3	Day 30 Day 24	1 4
1	38	F	Terminal Death Normal	Day 30 Day 3	Day 30 Day 24	1 4
1	39	F	Terminal Death Normal	Day 30 Day 3	Day 30 Day 24	1 4
1	40	F	Terminal Death Normal	Day 30 Day 3	Day 30 Day 24	1 4
1	43	F	Terminal Death Normal	Day 29 Day 2	Day 29 Day 24	1 5
1	44	F	Terminal Death Normal	Day 29 Day 2	Day 29 Day 24	1 5
1	47	F	Terminal Death Normal	Day 30 Day 3	Day 30 Day 24	1 4
1	48	F	Red Material Around Eyes Terminal Death Normal	Day 24 Day 30 Day 3	Day 24 Day 30 Day 17	1 1 3
1	51	F	Terminal Death Normal	Day 31 Day 3	Day 31 Day 24	1 4
1	52	F	Terminal Death Normal	Day 31 Day 3	Day 31 Day 24	1 4
1	55	F	Terminal Death Normal	Day 35 Day 3	Day 35 Day 31	1 5
1	56	F	Terminal Death Normal	Day 35 Day 3	Day 35 Day 31	1 5
1	59	F	Terminal Death Normal	Day 36 Day 3	Day 36 Day 31	1 5
1	60	F	Terminal Death Normal	Day 36 Day 3	Day 36 Day 31	1 5

<sup>a</sup> 1 = Filtered Air Control (0 ppm); 2 = HMDS (50 ppm); 3 = HMDS (200 ppm);  
4 = HMDS (1000 ppm); 5 = HMDS (5000 ppm); 6 = Intra-assay control (0 ppm)

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Clinical Observations

<u>Group<sup>a</sup></u>	<u>Animal</u>	<u>Sex</u>	<u>Observation</u>	<u>Onset</u>	<u>Duration</u>	<u>Frequency</u>
2	61	M	Terminal Death Normal	Day 31 Day 2	Day 31 Day 23	1 4
2	62	M	Terminal Death Normal	Day 31 Day 2	Day 31 Day 23	1 4
2	63	M	Terminal Death Normal	Day 31 Day 2	Day 31 Day 23	1 4
2	64	M	Terminal Death Normal	Day 31 Day 2	Day 31 Day 23	1 4
2	65	M	Terminal Death Normal	Day 31 Day 2	Day 31 Day 23	1 4
2	66	M	Terminal Death Normal	Day 31 Day 2	Day 31 Day 23	1 4
2	67	M	Terminal Death Normal	Day 31 Day 2	Day 31 Day 23	1 4
2	68	M	Terminal Death Normal	Day 31 Day 2	Day 31 Day 23	1 4
2	69	M	Terminal Death Normal	Day 31 Day 2	Day 31 Day 23	1 4
2	70	M	Terminal Death Normal	Day 31 Day 2	Day 31 Day 23	1 4
2	81	M	Terminal Death Normal	Day 29 Day 2	Day 29 Day 23	1 4
2	82	M	Terminal Death Normal	Day 29 Day 2	Day 29 Day 23	1 4
2	83	M	Terminal Death Normal	Day 29 Day 2	Day 29 Day 23	1 4
2	84	M	Terminal Death Normal	Day 29 Day 2	Day 29 Day 23	1 4
2	85	M	Terminal Death Normal	Day 29 Day 2	Day 29 Day 23	1 4

<sup>a</sup> 1 = Filtered Air Control (0 ppm); 2 = HMDS (50 ppm); 3 = HMDS (200 ppm);  
4 = HMDS (1000 ppm); 5 = HMDS (5000 ppm); 6 = Intra-assay control (0 ppm)

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Clinical Observations

<u>Group<sup>a</sup></u>	<u>Animal</u>	<u>Sex</u>	<u>Observation</u>	<u>Onset</u>	<u>Duration</u>	<u>Frequency</u>
2	86	M	Terminal Death Normal	Day 29 Day 2	Day 29 Day 23	1 4
2	87	M	Terminal Death Normal	Day 29 Day 2	Day 29 Day 23	1 4
2	88	M	Terminal Death Normal	Day 29 Day 2	Day 29 Day 23	1 4
2	89	M	Terminal Death Normal	Day 29 Day 2	Day 29 Day 23	1 4
2	90	M	Terminal Death Normal	Day 29 Day 2	Day 29 Day 23	1 4
2	101	M	Terminal Death Normal	Day 29 Day 2	Day 29 Day 23	1 4
2	102	M	Terminal Death Normal	Day 29 Day 2	Day 29 Day 23	1 4
2	105	M	Terminal Death Normal	Day 30 Day 2	Day 30 Day 23	1 4
2	106	M	Terminal Death Normal	Day 30 Day 2	Day 30 Day 23	1 4
2	109	M	Terminal Death Normal	Day 31 Day 2	Day 31 Day 23	1 4
2	110	M	Terminal Death Normal	Day 31 Day 2	Day 31 Day 23	1 4
2	113	M	Terminal Death Normal	Day 35 Day 2	Day 35 Day 31	1 5
2	114	M	Terminal Death Normal	Day 35 Day 2	Day 35 Day 31	1 5
2	117	M	Terminal Death Normal	Day 36 Day 2	Day 36 Day 31	1 5
2	118	M	Terminal Death Normal	Day 36 Day 2	Day 36 Day 31	1 5

<sup>a</sup> 1 = Filtered Air Control (0 ppm); 2 = HMDS (50 ppm); 3 = HMDS (200 ppm);  
4 = HMDS (1000 ppm); 5 = HMDS (5000 ppm); 6 = Intra-assay control (0 ppm)

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Clinical Observations

<u>Group*</u>	<u>Animal</u>	<u>Sex</u>	<u>Observation</u>	<u>Onset</u>	<u>Duration</u>	<u>Frequency</u>
2	71	F	Terminal Death Normal	Day 32 Day 3	Day 32 Day 31	1 5
2	72	F	Terminal Death Normal	Day 32 Day 3	Day 32 Day 31	1 5
2	73	F	Wet Inguinal Fur Terminal Death Normal	Day 10 Day 32 Day 3	Day 10 Day 32 Day 31	1 1 4
2	74	F	Terminal Death Normal	Day 32 Day 3	Day 32 Day 31	1 5
2	75	F	Terminal Death Normal	Day 32 Day 3	Day 32 Day 31	1 5
2	76	F	Terminal Death Normal	Day 32 Day 3	Day 32 Day 31	1 5
2	77	F	Terminal Death Normal	Day 32 Day 3	Day 32 Day 31	1 5
2	78	F	Terminal Death Normal	Day 32 Day 3	Day 32 Day 31	1 5
2	79	F	Terminal Death Normal	Day 32 Day 3	Day 32 Day 31	1 5
2	80	F	Terminal Death Normal	Day 32 Day 3	Day 32 Day 31	1 5
2	91	F	Red Material Around Eyes Terminal Death Normal	Day 17 Day 30 Day 3	Day 17 Day 30 Day 24	1 1 3
2	92	F	Terminal Death Normal	Day 30 Day 3	Day 30 Day 24	1 4
2	93	F	Terminal Death Normal	Day 30 Day 3	Day 30 Day 24	1 4
2	94	F	Terminal Death Normal	Day 30 Day 3	Day 30 Day 24	1 4
2	95	F	Terminal Death Normal	Day 30 Day 3	Day 30 Day 24	1 4

\* 1 = Filtered Air Control (0 ppm); 2 = HMDS (50 ppm); 3 = HMDS (200 ppm);  
4 = HMDS (1000 ppm); 5 = HMDS (5000 ppm); 6 = Intra-assay control (0 ppm)

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Clinical Observations

<u>Group*</u>	<u>Animal</u>	<u>Sex</u>	<u>Observation</u>	<u>Onset</u>	<u>Duration</u>	<u>Frequency</u>
2	96	F	Terminal Death Normal	Day 30 Day 3	Day 30 Day 24	1 4
2	97	F	Red Material Around Eyes Terminal Death Normal	Day 17 Day 30 Day 3	Day 24 Day 30 Day 10	2 1 2
2	98	F	Terminal Death Normal	Day 30 Day 3	Day 30 Day 24	1 4
2	99	F	Terminal Death Normal	Day 30 Day 3	Day 30 Day 24	1 4
2	100	F	Terminal Death Normal	Day 30 Day 3	Day 30 Day 24	1 4
2	103	F	Terminal Death Normal	Day 29 Day 3	Day 29 Day 24	1 4
2	104	F	Terminal Death Normal	Day 29 Day 3	Day 29 Day 24	1 4
2	107	F	Terminal Death Normal	Day 30 Day 3	Day 30 Day 24	1 4
2	108	F	Terminal Death Normal	Day 30 Day 3	Day 30 Day 24	1 4
2	111	F	Terminal Death Normal	Day 31 Day 3	Day 31 Day 24	1 4
2	112	F	Terminal Death Normal	Day 31 Day 3	Day 31 Day 24	1 4
2	115	F	Terminal Death Normal	Day 35 Day 3	Day 35 Day 31	1 5
2	116	F	Terminal Death Normal	Day 35 Day 3	Day 35 Day 31	1 5
2	119	F	Terminal Death Normal	Day 36 Day 3	Day 36 Day 31	1 5
2	120	F	Terminal Death Normal	Day 36 Day 3	Day 36 Day 31	1 5

\* 1 = Filtered Air Control (0 ppm); 2 = HMDS (50 ppm); 3 = HMDS (200 ppm);  
4 = HMDS (1000 ppm); 5 = HMDS (5000 ppm); 6 = Intra-assay control (0 ppm)

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Clinical Observations

<u>Group*</u>	<u>Animal</u>	<u>Sex</u>	<u>Observation</u>	<u>Onset</u>	<u>Duration</u>	<u>Frequency</u>
3	121	M	Terminal Death Normal	Day 31 Day 2	Day 31 Day 23	1 4
3	122	M	Terminal Death Normal	Day 31 Day 2	Day 31 Day 23	1 4
3	123	M	Terminal Death Normal	Day 31 Day 2	Day 31 Day 23	1 4
3	124	M	Terminal Death Normal	Day 31 Day 2	Day 31 Day 23	1 4
3	125	M	Terminal Death Normal	Day 31 Day 2	Day 31 Day 23	1 4
3	126	M	Terminal Death Normal	Day 31 Day 2	Day 31 Day 23	1 4
3	127	M	Terminal Death Normal	Day 31 Day 2	Day 31 Day 23	1 4
3	128	M	Terminal Death Normal	Day 31 Day 2	Day 31 Day 23	1 4
3	129	M	Terminal Death Normal	Day 31 Day 2	Day 31 Day 23	1 4
3	130	M	Terminal Death Normal	Day 31 Day 2	Day 31 Day 23	1 4
3	141	M	Terminal Death Normal	Day 29 Day 2	Day 29 Day 23	1 4
3	142	M	Terminal Death Normal	Day 29 Day 2	Day 29 Day 23	1 4
3	143	M	Terminal Death Normal	Day 29 Day 2	Day 29 Day 23	1 4
3	144	M	Terminal Death Normal	Day 29 Day 2	Day 29 Day 23	1 4
3	145	M	Terminal Death Normal	Day 29 Day 2	Day 29 Day 23	1 4

\* 1 = Filtered Air Control (0 ppm); 2 = HMDS (50 ppm); 3 = HMDS (200 ppm);  
4 = HMDS (1000 ppm); 5 = HMDS (5000 ppm); 6 = Intra-assay control (0 ppm)

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Clinical Observations

<u>Group<sup>a</sup></u>	<u>Animal</u>	<u>Sex</u>	<u>Observation</u>	<u>Onset</u>	<u>Duration</u>	<u>Frequency</u>
3	146	M	Terminal Death Normal	Day 29 Day 2	Day 29 Day 23	1 4
3	147	M	Terminal Death Normal	Day 29 Day 2	Day 29 Day 23	1 4
3	148	M	Terminal Death Normal	Day 29 Day 2	Day 29 Day 23	1 4
3	149	M	Terminal Death Normal	Day 29 Day 2	Day 29 Day 23	1 4
3	150	M	Terminal Death Normal	Day 29 Day 2	Day 29 Day 23	1 4
3	161	M	Terminal Death Normal	Day 29 Day 2	Day 29 Day 23	1 4
3	162	M	Terminal Death Normal	Day 29 Day 2	Day 29 Day 23	1 4
3	165	M	Terminal Death Normal	Day 30 Day 2	Day 30 Day 23	1 4
3	166	M	Terminal Death Normal	Day 30 Day 2	Day 30 Day 23	1 4
3	169	M	Terminal Death Normal	Day 31 Day 2	Day 31 Day 23	1 4
3	170	M	Terminal Death Normal	Day 31 Day 2	Day 31 Day 23	1 4
3	173	M	Terminal Death Normal	Day 35 Day 2	Day 35 Day 31	1 5
3	174	M	Terminal Death Normal	Day 35 Day 2	Day 35 Day 31	1 5
3	177	M	Red Material Around Eyes Terminal Death Normal	Day 23 Day 36 Day 2	Day 31 Day 36 Day 16	2 1 3
3	178	M	Terminal Death Normal	Day 36 Day 2	Day 36 Day 31	1 5

<sup>a</sup> 1 = Filtered Air Control (0 ppm); 2 = HMDS (50 ppm); 3 = HMDS (200 ppm);  
4 = HMDS (1000 ppm); 5 = HMDS (5000 ppm); 6 = Intra-assay control (0 ppm)

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Clinical Observations

<u>Group*</u>	<u>Animal</u>	<u>Sex</u>	<u>Observation</u>	<u>Onset</u>	<u>Duration</u>	<u>Frequency</u>
3	131	F	Terminal Death Normal	Day 32 Day 3	Day 32 Day 31	1 5
3	132	F	Red Material Around Eyes Terminal Death Normal	Day 31 Day 32 Day 3	Day 31 Day 32 Day 24	1 1 4
3	133	F	Red Material Around Eyes Red Material Around Nose Terminal Death Normal	Day 10 Day 10 Day 32 Day 3	Day 31 Day 10 Day 32 Day 17	3 1 1 2
3	134	F	Terminal Death Normal	Day 32 Day 3	Day 32 Day 31	1 5
3	135	F	Terminal Death Normal	Day 32 Day 3	Day 32 Day 31	1 5
3	136	F	Terminal Death Normal	Day 32 Day 3	Day 32 Day 31	1 5
3	137	F	Terminal Death Normal	Day 32 Day 3	Day 32 Day 31	1 5
3	138	F	Red Material Around Eyes Terminal Death Normal	Day 17 Day 32 Day 3	Day 31 Day 32 Day 10	3 1 2
3	139	F	Terminal Death Normal	Day 32 Day 3	Day 32 Day 31	1 5
3	140	F	Terminal Death Normal	Day 32 Day 3	Day 32 Day 31	1 5
3	151	F	Terminal Death Normal	Day 30 Day 3	Day 30 Day 24	1 4
3	152	F	Terminal Death Normal	Day 30 Day 3	Day 30 Day 24	1 4
3	153	F	Terminal Death Normal	Day 30 Day 3	Day 30 Day 24	1 4
3	154	F	Terminal Death Normal	Day 30 Day 3	Day 30 Day 24	1 4

\* 1 = Filtered Air Control (0 ppm); 2 = HMDS (50 ppm); 3 = HMDS (200 ppm);  
4 = HMDS (1000 ppm); 5 = HMDS (5000 ppm); 6 = Intra-assay control (0 ppm)

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Clinical Observations

<u>Group*</u>	<u>Animal</u>	<u>Sex</u>	<u>Observation</u>	<u>Onset</u>	<u>Duration</u>	<u>Frequency</u>
3	155	F	Terminal Death Normal	Day 30 Day 3	Day 30 Day 24	1 4
3	156	F	Terminal Death Normal	Day 30 Day 3	Day 30 Day 24	1 4
3	157	F	Terminal Death Normal	Day 30 Day 3	Day 30 Day 24	1 4
3	158	F	Terminal Death Normal	Day 30 Day 3	Day 30 Day 24	1 4
3	159	F	Terminal Death Normal	Day 30 Day 3	Day 30 Day 24	1 4
3	160	F	Terminal Death Normal	Day 30 Day 3	Day 30 Day 24	1 4
3	163	F	Terminal Death Normal	Day 29 Day 3	Day 29 Day 24	1 4
3	164	F	Terminal Death Normal	Day 29 Day 3	Day 29 Day 24	1 4
3	167	F	Terminal Death Normal	Day 30 Day 3	Day 30 Day 24	1 4
3	168	F	Terminal Death Normal	Day 30 Day 3	Day 30 Day 24	1 4
3	171	F	Terminal Death Normal	Day 31 Day 3	Day 31 Day 24	1 4
3	172	F	Red Material Around Eyes Terminal Death	Day 3 Day 31	Day 24 Day 31	4 1
3	175	F	Terminal Death Normal	Day 35 Day 3	Day 35 Day 31	1 5
3	176	F	Terminal Death Normal	Day 35 Day 3	Day 35 Day 31	1 5
3	179	F	Terminal Death Normal	Day 36 Day 3	Day 36 Day 31	1 5
3	180	F	Terminal Death Normal	Day 36 Day 3	Day 36 Day 31	1 5

\* 1 = Filtered Air Control (0 ppm); 2 = HMDS (50 ppm); 3 = HMDS (200 ppm);  
4 = HMDS (1000 ppm); 5 = HMDS (5000 ppm); 6 = Intra-assay control (0 ppm)

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Clinical Observations

<u>Group<sup>a</sup></u>	<u>Animal</u>	<u>Sex</u>	<u>Observation</u>	<u>Onset</u>	<u>Duration</u>	<u>Frequency</u>
4	181	M	Terminal Death Normal	Day 31 Day 2	Day 31 Day 23	1 4
4	182	M	Terminal Death Normal	Day 31 Day 2	Day 31 Day 23	1 4
4	183	M	Terminal Death Normal	Day 31 Day 2	Day 31 Day 23	1 4
4	184	M	Terminal Death Normal	Day 31 Day 2	Day 31 Day 23	1 4
4	185	M	Terminal Death Normal	Day 31 Day 2	Day 31 Day 23	1 4
4	186	M	Terminal Death Normal	Day 31 Day 2	Day 31 Day 23	1 4
4	187	M	Terminal Death Normal	Day 31 Day 2	Day 31 Day 23	1 4
4	188	M	Terminal Death Normal	Day 31 Day 2	Day 31 Day 23	1 4
4	189	M	Terminal Death Normal	Day 31 Day 2	Day 31 Day 23	1 4
4	190	M	Terminal Death Normal	Day 31 Day 2	Day 31 Day 23	1 4
4	201	M	Terminal Death Normal	Day 29 Day 2	Day 29 Day 23	1 4
4	202	M	Terminal Death Normal	Day 29 Day 2	Day 29 Day 23	1 4
4	203	M	Terminal Death Normal	Day 29 Day 2	Day 29 Day 23	1 4
4	204	M	Terminal Death Normal	Day 29 Day 2	Day 29 Day 23	1 4
4	205	M	Terminal Death Normal	Day 29 Day 2	Day 29 Day 23	1 4

<sup>a</sup> 1 = Filtered Air Control (0 ppm); 2 = HMDS (50 ppm); 3 = HMDS (200 ppm);  
4 = HMDS (1000 ppm); 5 = HMDS (5000 ppm); 6 = Intra-assay control (0 ppm)

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Clinical Observations

<u>Group<sup>a</sup></u>	<u>Animal</u>	<u>Sex</u>	<u>Observation</u>	<u>Onset</u>	<u>Duration</u>	<u>Frequency</u>
4	206	M	Terminal Death Normal	Day 29 Day 2	Day 29 Day 23	1 4
4	207	M	Terminal Death Normal	Day 29 Day 2	Day 29 Day 23	1 4
4	208	M	Terminal Death Normal	Day 29 Day 2	Day 29 Day 23	1 4
4	209	M	Terminal Death Normal	Day 29 Day 2	Day 29 Day 23	1 4
4	210	M	Terminal Death Normal	Day 29 Day 2	Day 29 Day 23	1 4
4	221	M	Terminal Death Normal	Day 29 Day 2	Day 29 Day 23	1 4
4	222	M	Terminal Death Normal	Day 29 Day 2	Day 29 Day 23	1 4
4	225	M	Terminal Death Normal	Day 30 Day 2	Day 30 Day 23	1 4
4	226	M	Terminal Death Normal	Day 30 Day 2	Day 30 Day 23	1 4
4	229	M	Terminal Death Normal	Day 31 Day 2	Day 31 Day 23	1 4
4	230	M	Terminal Death Normal	Day 31 Day 2	Day 31 Day 23	1 4
4	233	M	Terminal Death Normal	Day 35 Day 2	Day 35 Day 31	1 5
4	234	M	Terminal Death Normal	Day 35 Day 2	Day 35 Day 31	1 5
4	237	M	Terminal Death Normal	Day 36 Day 2	Day 36 Day 31	1 5
4	238	M	Terminal Death Normal	Day 36 Day 2	Day 36 Day 31	1 5

<sup>a</sup> 1 = Filtered Air Control (0 ppm); 2 = HMDS (50 ppm); 3 = HMDS (200 ppm);  
4 = HMDS (1000 ppm); 5 = HMDS (5000 ppm); 6 = Intra-assay control (0 ppm)

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Clinical Observations

<u>Group*</u>	<u>Animal</u>	<u>Sex</u>	<u>Observation</u>	<u>Onset</u>	<u>Duration</u>	<u>Frequency</u>
4	191	F	Terminal Death Normal	Day 32 Day 3	Day 32 Day 31	1 5
4	192	F	Terminal Death Normal	Day 32 Day 3	Day 32 Day 31	1 5
4	193	F	Terminal Death Normal	Day 32 Day 3	Day 32 Day 31	1 5
4	194	F	Terminal Death Normal	Day 32 Day 3	Day 32 Day 31	1 5
4	195	F	Red Material Around Eyes Terminal Death Normal	Day 24 Day 32 Day 3	Day 24 Day 32 Day 31	1 1 4
4	196	F	Terminal Death Normal	Day 32 Day 3	Day 32 Day 31	1 5
4	197	F	Terminal Death Normal	Day 32 Day 3	Day 32 Day 31	1 5
4	198	F	Terminal Death Normal	Day 32 Day 3	Day 32 Day 31	1 5
4	199	F	Terminal Death Normal	Day 32 Day 3	Day 32 Day 31	1 5
4	200	F	Terminal Death Normal	Day 32 Day 3	Day 32 Day 31	1 5
4	211	F	Terminal Death Normal	Day 30 Day 3	Day 30 Day 24	1 4
4	212	F	Terminal Death Normal	Day 30 Day 3	Day 30 Day 24	1 4
4	213	F	Terminal Death Normal	Day 30 Day 3	Day 30 Day 24	1 4
4	214	F	Terminal Death Normal	Day 30 Day 3	Day 30 Day 24	1 4
4	215	F	Terminal Death Normal	Day 30 Day 3	Day 30 Day 24	1 4

\* 1 = Filtered Air Control (0 ppm); 2 = HMDS (50 ppm); 3 = HMDS (200 ppm);  
4 = HMDS (1000 ppm); 5 = HMDS (5000 ppm); 6 = Intra-assay control (0 ppm)

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Clinical Observations

<u>Group<sup>a</sup></u>	<u>Animal</u>	<u>Sex</u>	<u>Observation</u>	<u>Onset</u>	<u>Duration</u>	<u>Frequency</u>
4	216	F	Red Material Around Eyes Terminal Death Normal	Day 10 Day 30 Day 3	Day 17 Day 30 Day 24	2 1 2
4	217	F	Terminal Death Normal	Day 30 Day 3	Day 30 Day 24	1 4
4	218	F	Terminal Death Normal	Day 30 Day 3	Day 30 Day 24	1 4
4	219	F	Terminal Death Normal	Day 30 Day 3	Day 30 Day 24	1 4
4	220	F	Terminal Death Normal	Day 30 Day 3	Day 30 Day 24	1 4
4	223	F	Terminal Death Normal	Day 29 Day 3	Day 29 Day 24	1 4
4	224	F	Terminal Death Normal	Day 29 Day 3	Day 29 Day 24	1 4
4	227	F	Terminal Death Normal	Day 30 Day 3	Day 30 Day 24	1 4
4	228	F	Terminal Death Normal	Day 30 Day 3	Day 30 Day 24	1 4
4	231	F	Terminal Death Normal	Day 31 Day 3	Day 31 Day 24	1 4
4	232	F	Terminal Death Normal	Day 31 Day 3	Day 31 Day 24	1 4
4	235	F	Terminal Death Normal	Day 35 Day 3	Day 35 Day 31	1 5
4	236	F	Terminal Death Normal	Day 35 Day 3	Day 35 Day 31	1 5
4	239	F	Terminal Death Normal	Day 36 Day 3	Day 36 Day 31	1 5
4	240	F	Wet Inguinal Fur Terminal Death Normal	Day 17 Day 36 Day 3	Day 17 Day 36 Day 31	1 1 4

<sup>a</sup> 1 = Filtered Air Control (0 ppm); 2 = HMDS (50 ppm); 3 = HMDS (200 ppm);  
4 = HMDS (1000 ppm); 5 = HMDS (5000 ppm); 6 = Intra-assay control (0 ppm)

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Clinical Observations

<u>Group<sup>a</sup></u>	<u>Animal</u>	<u>Sex</u>	<u>Observation</u>	<u>Onset</u>	<u>Duration</u>	<u>Frequency</u>
5	241	M	Terminal Death	Day 31	Day 31	1
			Normal	Day 2	Day 23	4
5	242	M	Terminal Death	Day 31	Day 31	1
			Normal	Day 2	Day 23	4
5	243	M	Red Material Around Eyes	Day 16	Day 23	2
			Terminal Death	Day 31	Day 31	1
			Normal	Day 2	Day 9	2
5	244	M	Terminal Death	Day 31	Day 31	1
			Normal	Day 2	Day 23	4
5	245	M	Lacrimation	Day 23	Day 23	1
			Terminal Death	Day 31	Day 31	1
			Normal	Day 2	Day 16	3
5	246	M	Terminal Death	Day 31	Day 31	1
			Normal	Day 2	Day 23	4
5	247	M	Terminal Death	Day 31	Day 31	1
			Normal	Day 2	Day 23	4
5	248	M	Terminal Death	Day 31	Day 31	1
			Normal	Day 2	Day 23	4
5	249	M	Terminal Death	Day 31	Day 31	1
			Normal	Day 2	Day 23	4
5	250	M	Terminal Death	Day 31	Day 31	1
			Normal	Day 2	Day 23	4
5	261	M	Terminal Death	Day 29	Day 29	1
			Normal	Day 2	Day 23	4
5	262	M	Terminal Death	Day 29	Day 29	1
			Normal	Day 2	Day 23	4
5	263	M	Terminal Death	Day 29	Day 29	1
			Normal	Day 2	Day 23	4
5	264	M	Terminal Death	Day 29	Day 29	1
			Normal	Day 2	Day 23	4
5	265	M	Terminal Death	Day 29	Day 29	1
			Normal	Day 2	Day 23	4

<sup>a</sup> 1 = Filtered Air Control (0 ppm); 2 = HMDS (50 ppm); 3 = HMDS (200 ppm);  
4 = HMDS (1000 ppm); 5 = HMDS (5000 ppm); 6 = Intra-assay control (0 ppm)

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Clinical Observations

<u>Group<sup>a</sup></u>	<u>Animal</u>	<u>Sex</u>	<u>Observation</u>	<u>Onset</u>	<u>Duration</u>	<u>Frequency</u>
5	266	M	Terminal Death Normal	Day 29 Day 2	Day 29 Day 23	1 4
5	267	M	Terminal Death Normal	Day 29 Day 2	Day 29 Day 23	1 4
5	268	M	Terminal Death Normal	Day 29 Day 2	Day 29 Day 23	1 4
5	269	M	Terminal Death Normal	Day 29 Day 2	Day 29 Day 23	1 4
5	270	M	Terminal Death Normal	Day 29 Day 2	Day 29 Day 23	1 4
5	281	M	Terminal Death Normal	Day 29 Day 2	Day 29 Day 23	1 4
5	282	M	Terminal Death Normal	Day 29 Day 2	Day 29 Day 23	1 4
5	285	M	Red Material Around Eyes Terminal Death Normal	Day 9 Day 30 Day 2	Day 9 Day 30 Day 23	1 1 3
5	286	M	Terminal Death Normal	Day 30 Day 2	Day 30 Day 23	1 4
5	289	M	Terminal Death Normal	Day 31 Day 2	Day 31 Day 23	1 4
5	290	M	Terminal Death Normal	Day 31 Day 2	Day 31 Day 23	1 4
5	293	M	Terminal Death Normal	Day 35 Day 2	Day 35 Day 31	1 5
5	294	M	Terminal Death Normal	Day 35 Day 2	Day 35 Day 31	1 5
5	297	M	Terminal Death Normal	Day 36 Day 2	Day 36 Day 31	1 5
5	298	M	Terminal Death Normal	Day 36 Day 2	Day 36 Day 31	1 5

<sup>a</sup> 1 = Filtered Air Control (0 ppm); 2 = HMDS (50 ppm); 3 = HMDS (200 ppm);  
4 = HMDS (1000 ppm); 5 = HMDS (5000 ppm); 6 = Intra-assay control (0 ppm)

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Clinical Observations

<u>Group<sup>a</sup></u>	<u>Animal</u>	<u>Sex</u>	<u>Observation</u>	<u>Onset</u>	<u>Duration</u>	<u>Frequency</u>
5	251	F	Terminal Death Normal	Day 32 Day 3	Day 32 Day 31	1 5
5	252	F	Terminal Death Normal	Day 32 Day 3	Day 32 Day 31	1 5
5	253	F	Terminal Death Normal	Day 32 Day 3	Day 32 Day 31	1 5
5	254	F	Terminal Death Normal	Day 32 Day 3	Day 32 Day 31	1 5
5	255	F	Terminal Death Left Eye with Red Crust Normal	Day 32 Day 3 Day 10	Day 32 Day 3 Day 31	1 1 4
5	256	F	Red Material Around Eyes Terminal Death Normal	Day 17 Day 32 Day 3	Day 17 Day 32 Day 31	1 1 4
5	257	F	Terminal Death Normal	Day 32 Day 3	Day 32 Day 31	1 5
5	258	F	Red Material Around Eyes Terminal Death Normal	Day 31 Day 32 Day 3	Day 31 Day 32 Day 24	1 1 4
5	259	F	Terminal Death Normal	Day 32 Day 3	Day 32 Day 31	1 5
5	260	F	Terminal Death Normal	Day 32 Day 3	Day 32 Day 31	1 5
5	271	F	Terminal Death Normal	Day 30 Day 3	Day 30 Day 24	1 4
5	272	F	Terminal Death Normal	Day 30 Day 3	Day 30 Day 24	1 4
5	273	F	Terminal Death Normal	Day 30 Day 3	Day 30 Day 24	1 4
5	274	F	Terminal Death Normal	Day 30 Day 3	Day 30 Day 24	1 4

\* 1 = Filtered Air Control (0 ppm); 2 = HMDS (50 ppm); 3 = HMDS (200 ppm);  
4 = HMDS (1000 ppm); 5 = HMDS (5000 ppm); 6 = Intra-assay control (0 ppm)

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Clinical Observations

<u>Group*</u>	<u>Animal</u>	<u>Sex</u>	<u>Observation</u>	<u>Onset</u>	<u>Duration</u>	<u>Frequency</u>
5	275	F	Terminal Death Normal	Day 30 Day 3	Day 30 Day 24	1 4
5	276	F	Terminal Death Normal	Day 30 Day 3	Day 30 Day 24	1 4
5	277	F	Terminal Death Normal	Day 30 Day 3	Day 30 Day 24	1 4
5	278	F	Terminal Death Normal	Day 30 Day 3	Day 30 Day 24	1 4
5	279	F	Terminal Death Normal	Day 30 Day 3	Day 30 Day 24	1 4
5	280	F	Terminal Death Normal	Day 30 Day 3	Day 30 Day 24	1 4
5	283	F	Terminal Death Normal	Day 29 Day 3	Day 29 Day 24	1 4
5	284	F	Terminal Death Normal	Day 29 Day 3	Day 29 Day 24	1 4
5	287	F	Terminal Death Normal	Day 30 Day 3	Day 30 Day 24	1 4
5	288	F	Terminal Death Normal	Day 30 Day 3	Day 30 Day 24	1 4
5	291	F	Terminal Death Normal	Day 31 Day 3	Day 31 Day 24	1 4
5	292	F	Terminal Death Normal	Day 31 Day 3	Day 31 Day 24	1 4
5	295	F	Terminal Death Normal	Day 35 Day 3	Day 35 Day 31	1 5
5	296	F	Terminal Death Normal	Day 35 Day 3	Day 35 Day 31	1 5
5	299	F	Red Material Around Eyes Terminal Death Normal	Day 24 Day 36 Day 3	Day 24 Day 36 Day 31	1 1 4
5	300	F	Terminal Death Normal	Day 36 Day 3	Day 36 Day 31	1 5

\* 1 = Filtered Air Control (0 ppm); 2 = HMDS (50 ppm); 3 = HMDS (200 ppm);  
4 = HMDS (1000 ppm); 5 = HMDS (5000 ppm); 6 = Intra-assay control (0 ppm)

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Clinical Observations

<u>Group*</u>	<u>Animal</u>	<u>Sex</u>	<u>Observation</u>	<u>Onset</u>	<u>Duration</u>	<u>Frequency</u>
6	301	M	Terminal Death Normal	Day 31 Day 2	Day 31 Day 23	1 4
6	302	M	Terminal Death Normal	Day 31 Day 2	Day 31 Day 23	1 4
6	303	M	Terminal Death Normal	Day 31 Day 2	Day 31 Day 23	1 4
6	304	M	Terminal Death Normal	Day 31 Day 2	Day 31 Day 23	1 4
6	305	M	Terminal Death Normal	Day 31 Day 2	Day 31 Day 23	1 4
6	306	M	Terminal Death Normal	Day 31 Day 2	Day 31 Day 23	1 4
6	307	M	Terminal Death Normal	Day 31 Day 2	Day 31 Day 23	1 4
6	308	M	Terminal Death Normal	Day 31 Day 2	Day 31 Day 23	1 4
6	309	M	Terminal Death Normal	Day 31 Day 2	Day 31 Day 23	1 4
6	310	M	Terminal Death Normal	Day 31 Day 2	Day 31 Day 23	1 4
6	321	M	Terminal Death Normal	Day 29 Day 2	Day 29 Day 23	1 4
6	322	M	Terminal Death Normal	Day 29 Day 2	Day 29 Day 23	1 4
6	323	M	Terminal Death Normal	Day 29 Day 2	Day 29 Day 23	1 4
6	324	M	Terminal Death Normal	Day 29 Day 2	Day 29 Day 23	1 4
6	325	M	Terminal Death Normal	Day 29 Day 2	Day 29 Day 23	1 4

\* 1 = Filtered Air Control (0 ppm); 2 = HMDS (50 ppm); 3 = HMDS (200 ppm);  
4 = HMDS (1000 ppm); 5 = HMDS (5000 ppm); 6 = Intra-assay control (0 ppm)

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Clinical Observations

<u>Group*</u>	<u>Animal</u>	<u>Sex</u>	<u>Observation</u>	<u>Onset</u>	<u>Duration</u>	<u>Frequency</u>
6	326	M	Terminal Death	Day 29	Day 29	1
			Normal	Day 2	Day 23	4
6	327	M	Terminal Death	Day 29	Day 29	1
			Normal	Day 2	Day 23	4
6	328	M	Terminal Death	Day 29	Day 29	1
			Normal	Day 2	Day 23	4
6	329	M	Terminal Death	Day 29	Day 29	1
			Normal	Day 2	Day 23	4
6	330	M	Terminal Death	Day 29	Day 29	1
			Normal	Day 2	Day 23	4

\* 1 = Filtered Air Control (0 ppm); 2 = HMDS (50 ppm); 3 = HMDS (200 ppm);  
4 = HMDS (1000 ppm); 5 = HMDS (5000 ppm); 6 = Intra-assay control (0 ppm)

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Clinical Observations

<u>Group<sup>a</sup></u>	<u>Animal</u>	<u>Sex</u>	<u>Observation</u>	<u>Onset</u>	<u>Duration</u>	<u>Frequency</u>
6	311	F	Terminal Death Normal	Day 32 Day 3	Day 32 Day 31	1 5
6	312	F	Terminal Death Normal	Day 32 Day 3	Day 32 Day 31	1 5
6	313	F	Terminal Death Normal	Day 32 Day 3	Day 32 Day 31	1 5
6	314	F	Terminal Death Normal	Day 32 Day 3	Day 32 Day 31	1 5
6	315	F	Red Material Around Mouth Wet Inguinal Fur Terminal Death Normal	Day 31 Day 31 Day 32 Day 3	Day 31 Day 31 Day 32 Day 24	1 1 1 4
6	316	F	Terminal Death Normal	Day 32 Day 3	Day 32 Day 31	1 5
6	317	F	Terminal Death Normal	Day 32 Day 3	Day 32 Day 31	1 5
6	318	F	Terminal Death Normal	Day 32 Day 3	Day 32 Day 31	1 5
6	319	F	Terminal Death Normal	Day 32 Day 3	Day 32 Day 31	1 5
6	320	F	Terminal Death Normal	Day 32 Day 3	Day 32 Day 31	1 5
6	331	F	Terminal Death Normal	Day 30 Day 3	Day 30 Day 24	1 4
6	332	F	Terminal Death Normal	Day 30 Day 3	Day 30 Day 24	1 4
6	333	F	Terminal Death Normal	Day 30 Day 3	Day 30 Day 24	1 4
6	334	F	Red Material Around Eyes Terminal Death Normal	Day 17 Day 30 Day 3	Day 17 Day 30 Day 24	1 1 3

<sup>a</sup> 1 = Filtered Air Control (0 ppm); 2 = HMDS (50 ppm); 3 = HMDS (200 ppm);  
4 = HMDS (1000 ppm); 5 = HMDS (5000 ppm); 6 = Intra-assay control (0 ppm)

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Clinical Observations

<u>Group*</u>	<u>Animal</u>	<u>Sex</u>	<u>Observation</u>	<u>Onset</u>	<u>Duration</u>	<u>Frequency</u>
6	335	F	Terminal Death	Day 30	Day 30	1
			Normal	Day 3	Day 24	4
6	336	F	Terminal Death	Day 30	Day 30	1
			Normal	Day 3	Day 24	4
6	337	F	Terminal Death	Day 30	Day 30	1
			Normal	Day 3	Day 24	4
6	338	F	Terminal Death	Day 30	Day 30	1
			Normal	Day 3	Day 24	4
6	339	F	Terminal Death	Day 30	Day 30	1
			Normal	Day 3	Day 24	4
6	340	F	Terminal Death	Day 30	Day 30	1
			Normal	Day 3	Day 24	4

\* 1 = Filtered Air Control (0 ppm); 2 = HMDS (50 ppm); 3 = HMDS (200 ppm);  
4 = HMDS (1000 ppm); 5 = HMDS (5000 ppm); 6 = Intra-assay control (0 ppm)

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
 Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Group	Animal	Sex	Day 1	Day 4	Day 8	Day 11	Day 15	Day 18	Day 22	Day 25	NK Males	Day 29	Day 30	Day 31	Day 32	Day 35	Day 36	Body Weight (g)
Filtered	1	M	158	167	184	198	215	222	235	242	-	-	248	-	247	d	d	d
Air Control (0 ppm)	2	M	146	154	176	191	205	216	227	234	-	-	238	-	237	d	d	d
	3	M	140	153	178	193	204	211	223	226	-	-	235	-	236	d	d	d
	4	M	142	148	173	189	199	207	215	221	-	-	224	-	229	d	d	d
	5	M	152	160	183	195	203	210	220	225	-	-	232	-	230	d	d	d
	6	M	153	165	183	195	207	215	223	231	-	-	237	-	237	d	d	d
	7	M	152	161	185	196	208	219	232	238	-	-	233	-	239	d	d	d
	8	M	151	166	192	206	220	231	241	250	-	-	258	-	263	d	d	d
	9	M	157	164	187	199	216	222	234	240	-	-	244	-	245	d	d	d
	10	M	144	153	177	190	203	208	217	226	-	-	230	-	229	d	d	d
	21	M	154	168	184	198	208	219	227	235	-	-	243	-	220	d	d	d
	22	M	151	163	183	196	208	216	225	233	-	-	241	-	220	d	d	d
	23	M	143	159	177	186	196	205	215	218	-	-	227	-	206	d	d	d
	24	M	156	174	196	211	224	236	247	253	-	-	257	-	235	d	d	d
	25	M	138	152	170	182	191	198	206	210	-	-	215	-	196	d	d	d
	26	M	149	163	183	193	208	213	217	219	-	-	224	-	205	d	d	d
	27	M	155	166	187	199	209	216	223	230	-	-	235	-	213	d	d	d
	28	M	149	162	181	198	210	220	234	243	-	-	249	-	226	d	d	d
	29	M	157	171	191	206	217	225	238	242	-	-	253	-	228	d	d	d
	30	M	145	158	179	190	198	204	217	226	-	-	235	-	211	d	d	d
	41	M	154	169	190	209	222	232	239	247	-	-	253	-	253	d	d	d
	42	M	150	165	182	198	212	222	234	245	-	-	255	-	255	d	d	d
	45	M	127	167	186	197	213	219	233	241	-	-	252	-	249	d	d	d
	46	M	153	166	183	190	203	211	225	233	-	-	244	-	245	d	d	d
	49	M	151	163	190	203	219	224	231	238	-	-	241	-	245	d	d	d
	50	M	154	170	189	203	217	226	237	246	-	-	253	-	252	d	d	d
	53	M	154	168	191	199	208	219	227	240	-	-	242	-	249	-	253	d
	54	M	146	159	187	199	208	218	227	236	-	-	243	-	246	252	d	d
	57	M	144	157	180	189	204	213	227	238	-	-	240	-	246	-	248	-
	58	M	142	152	174	187	201	210	217	224	-	-	232	-	237	-	246	-

-- = No data  
 d = Animal dead, euthanized

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
 Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Group	Animal	Sex	Day 1	Day 4	Day 8	Day 11	Day 15	Day 18	Day 22	Day 25	NK Males	Day 29	Day 30	Day 31	Day 32	Day 35	Day 36	Body Weight (g)
HMDS (50 ppm)	61	M	139	153	167	182	193	200	207	214	-	220	-	218	d	d	d	d
	62	M	141	154	170	179	190	193	199	208	-	208	-	214	d	d	d	d
	63	M	154	169	185	195	204	211	222	229	-	233	-	232	d	d	d	d
	64	M	151	174	190	204	213	223	233	240	-	248	-	249	d	d	d	d
	65	M	155	173	191	207	218	228	240	247	-	258	-	259	d	d	d	d
	66	M	159	175	195	212	224	236	253	263	-	275	-	282	d	d	d	d
	67	M	146	164	181	195	207	215	226	231	-	239	-	243	d	d	d	d
	68	M	146	162	185	195	209	220	229	237	-	245	-	248	d	d	d	d
	69	M	150	163	185	198	206	214	222	227	-	227	-	226	d	d	d	d
	70	M	146	166	191	206	217	225	234	242	-	250	-	252	d	d	d	d
	81	M	151	164	177	189	193	198	207	214	219	199	d	d	d	d	d	d
	82	M	141	154	166	177	186	193	204	214	220	209	d	d	d	d	d	d
	83	M	142	165	184	199	208	220	232	244	250	226	d	d	d	d	d	d
	84	M	138	153	173	181	194	204	214	222	228	208	d	d	d	d	d	d
	85	M	156	172	193	206	214	223	233	244	249	229	d	d	d	d	d	d
	86	M	152	165	181	194	204	211	224	229	238	215	d	d	d	d	d	d
	87	M	151	166	184	193	202	211	219	229	236	213	d	d	d	d	d	d
	88	M	153	166	185	191	204	213	227	236	243	219	d	d	d	d	d	d
	89	M	147	163	182	192	206	213	227	233	242	220	d	d	d	d	d	d
	90	M	159	166	184	197	213	220	232	240	244	223	d	d	d	d	d	d
	101	M	153	169	186	198	206	216	223	231	-	240	d	d	d	d	d	d
	102	M	153	165	188	196	209	216	221	229	-	236	d	d	d	d	d	d
	105	M	131	160	182	190	200	207	217	223	-	232	d	d	d	d	d	d
	106	M	150	165	185	194	206	215	223	232	-	242	241	d	d	d	d	d
	109	M	151	165	191	203	217	224	237	245	-	252	-	256	d	d	d	d
	110	M	142	157	180	192	207	214	228	236	-	245	-	246	d	d	d	d
	113	M	152	168	189	194	205	217	230	239	-	249	-	258	d	d	d	d
	114	M	149	161	179	185	196	202	212	218	-	226	-	229	232	d	d	d
	117	M	156	173	201	215	236	251	265	276	-	290	-	295	-	-	-	-
	118	M	146	160	181	188	203	213	222	231	-	242	-	248	-	-	-	-
	118	M	146	160	181	188	203	213	222	231	-	242	-	248	-	-	-	-

- = No data  
 d = Animal dead, euthanized

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
 Whole-Body Inhalation Exposure in Fischer 344 Rats

**Appendix B - Individual Animal Data**

Group	Animal	Sex	Day 1	Day 4	Day 8	Day 11	Day 15	Day 18	Day 22	Day 25	NK Males	Day 29	Day 30	Day 31	Day 32	Day 35	Day 36
HMDS (200 ppm)	121	M	149	165	184	195	205	211	217	226	-	231	-	232	d	d	d
	122	M	153	165	181	198	212	219	232	247	-	250	-	252	d	d	d
	123	M	155	172	192	204	216	226	235	246	-	250	-	254	d	d	d
	124	M	144	161	172	182	190	195	204	210	-	214	-	215	d	d	d
	125	M	165	177	193	207	218	227	239	251	-	254	-	254	d	d	d
	126	M	142	155	172	186	200	210	224	237	-	244	-	244	d	d	d
	127	M	151	164	181	195	210	218	232	241	-	244	-	242	d	d	d
	128	M	143	160	182	194	213	222	234	250	-	255	-	260	d	d	d
	129	M	151	162	180	189	199	205	215	227	-	228	-	229	d	d	d
	130	M	145	159	180	195	205	216	226	239	-	244	-	243	d	d	d
	141	M	124	155	173	182	195	202	213	223	227	205	d	d	d	d	d
	142	M	158	171	188	199	208	213	223	232	233	211	d	d	d	d	d
	143	M	143	153	167	176	186	190	197	210	209	190	d	d	d	d	d
	144	M	152	165	185	198	209	215	225	237	239	217	d	d	d	d	d
	145	M	145	156	172	181	192	198	204	213	212	193	d	d	d	d	d
	146	M	138	151	171	185	198	204	216	228	227	209	d	d	d	d	d
	147	M	138	148	163	175	180	187	193	204	204	185	d	d	d	d	d
	148	M	153	163	187	197	210	216	230	242	244	220	d	d	d	d	d
	149	M	154	165	182	192	205	207	214	225	227	207	d	d	d	d	d
	150	M	148	155	172	182	196	207	217	230	231	211	d	d	d	d	d
	161	M	142	155	173	184	193	200	204	218	-	223	d	d	d	d	d
	162	M	156	170	192	200	211	219	233	242	-	253	d	d	d	d	d
	165	M	156	166	183	192	203	208	218	231	-	237	d	d	d	d	d
	166	M	146	162	183	196	209	219	233	245	-	252	254	d	d	d	d
	169	M	145	155	172	181	192	198	205	211	-	213	-	215	d	d	d
	170	M	151	161	179	190	198	205	212	220	-	219	-	217	d	d	d
	173	M	144	155	180	186	193	199	209	220	-	226	-	226	d	d	d
	174	M	159	168	195	204	217	225	238	251	-	261	-	266	d	d	d
	177	M	141	154	179	188	200	207	218	228	-	232	-	237	-	-	243
	178	M	152	162	182	188	197	203	212	221	-	228	-	229	-	-	236

-- = No data  
 d = Animal dead, euthanized

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
 Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Group	Animal	Sex	Day 1	Day 4	Day 8	Day 11	Day 15	Day 18	Day 22	Day 25	NK Males	Day 29	Day 30	Day 31	Day 32	Day 35	Day 36	Body Weight (g)		
HMDS (1000 ppm)	181	M	153	165	186	200	217	224	237	240	-	253	-	253	d	d	d	d	d	d
	182	M	142	151	175	191	208	219	232	239	-	253	-	254	d	d	d	d	d	d
	183	M	157	172	194	207	222	233	245	255	-	272	-	276	d	d	d	d	d	d
	184	M	143	159	176	186	200	203	212	217	-	226	-	228	d	d	d	d	d	d
	185	M	146	159	178	189	204	212	224	231	-	244	-	248	d	d	d	d	d	d
	186	M	152	160	177	188	201	212	222	229	-	240	-	246	d	d	d	d	d	d
	187	M	152	168	186	199	213	219	230	236	-	248	-	250	d	d	d	d	d	d
	188	M	154	168	191	203	218	225	237	244	-	256	-	258	d	d	d	d	d	d
	189	M	145	160	181	192	201	207	216	217	-	228	-	227	d	d	d	d	d	d
	190	M	152	165	185	199	212	219	231	236	-	248	-	251	d	d	d	d	d	d
	201	M	138	166	188	199	212	220	231	238	-	243	220	d	d	d	d	d	d	
	202	M	139	168	188	200	212	221	234	236	-	247	225	d	d	d	d	d	d	
	203	M	127	150	168	181	193	200	209	213	-	221	200	d	d	d	d	d	d	
	204	M	142	165	184	195	211	217	230	236	-	242	221	d	d	d	d	d	d	
	205	M	127	154	170	181	189	193	200	204	-	213	194	d	d	d	d	d	d	
	206	M	131	159	179	191	204	214	226	233	-	242	221	d	d	d	d	d	d	
	207	M	136	167	188	195	209	219	230	235	-	244	222	d	d	d	d	d	d	
	208	M	135	163	182	195	209	215	230	232	-	242	222	d	d	d	d	d	d	
	209	M	141	165	183	193	207	209	221	226	-	235	212	d	d	d	d	d	d	
	210	M	134	163	188	200	216	228	241	249	-	260	234	d	d	d	d	d	d	
	221	M	149	163	179	187	194	199	210	215	-	228	d	d	d	d	d	d	d	
	222	M	141	154	175	187	203	212	223	229	-	244	d	d	d	d	d	d	d	
	225	M	150	155	168	179	191	199	208	212	-	226	225	d	d	d	d	d	d	
	226	M	144	155	174	189	204	211	221	228	-	242	245	d	d	d	d	d	d	
	229	M	143	156	177	191	208	216	228	233	-	248	-	251	d	d	d	d	d	d
	230	M	153	165	184	195	209	217	227	228	-	242	-	243	d	d	d	d	d	d
	233	M	158	172	197	206	218	224	237	240	-	252	-	258	d	d	d	d	d	d
	234	M	157	170	191	200	210	218	225	232	-	246	-	250	d	d	d	d	d	d
	237	M	140	153	180	189	200	207	216	221	-	233	-	235	-	-	-	-	-	-
	238	M	150	161	190	198	207	216	224	228	-	241	-	242	-	-	-	-	-	-

-- = No data  
 d = Animal dead, euthanized

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
 Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Group	Animal	Sex	Day 1	Body Weight (g)														
				Day 4	Day 8	Day 11	Day 15	Day 18	Day 22	Day 25	NK Males	Day 29	Day 30	Day 31	Day 32	Day 35	Day 36	
HMDS (5000 ppm)	241	M	147	155	174	185	195	204	214	216	-	230	-	232	d	d		
	242	M	144	162	183	195	205	218	228	237	-	245	-	251	d	d		
	243	M	141	153	171	181	192	201	211	219	-	231	-	235	d	d		
	244	M	163	176	191	203	212	223	236	244	-	254	-	257	d	d		
	245	M	142	156	174	185	193	200	208	216	-	225	-	228	d	d		
	246	M	150	162	179	190	201	211	220	230	-	239	-	240	d	d		
	247	M	154	166	184	199	213	224	240	245	-	256	-	260	d	d		
	248	M	150	157	173	178	194	204	212	221	-	227	-	229	d	d		
	249	M	153	165	181	192	203	211	222	228	-	238	-	241	d	d		
	250	M	150	165	182	194	205	214	225	232	-	240	-	244	d	d		
	261	M	147	159	176	188	202	212	223	234	240	-	238	d	d	d	d	
	262	M	144	153	171	181	195	201	212	220	227	-	207	d	d	d	d	
	263	M	139	150	164	175	186	193	205	217	228	-	207	d	d	d	d	
	264	M	147	158	175	184	197	203	218	227	237	-	216	d	d	d	d	
	265	M	151	162	184	193	203	209	217	223	228	-	207	d	d	d	d	
	266	M	157	165	181	192	203	212	219	228	238	-	216	d	d	d	d	
	267	M	155	168	186	198	214	225	233	241	247	-	226	d	d	d	d	
	268	M	150	164	184	194	205	215	225	232	242	-	219	d	d	d	d	
	269	M	146	159	182	192	205	215	225	234	241	-	220	d	d	d	d	
	270	M	150	164	180	194	203	212	220	227	236	-	215	d	d	d	d	
	281	M	141	151	168	177	188	194	203	208	-	220	-	229	d	d	d	d
	282	M	143	156	174	185	203	210	225	230	-	242	-	233	d	d	d	d
	285	M	123	165	186	201	220	228	240	249	-	261	-	264	d	d	d	d
	286	M	124	158	176	192	205	214	226	234	-	249	-	250	d	d	d	d
	289	M	148	165	183	199	215	225	235	243	-	238	-	261	d	d	d	d
	290	M	146	154	175	184	195	204	214	222	-	233	-	237	d	d	d	d
	293	M	149	161	185	193	205	213	220	226	-	242	-	247	d	d	d	d
	294	M	153	164	189	199	212	220	230	237	-	250	-	260	d	d	d	d
	297	M	146	158	185	191	200	210	218	227	-	238	-	241	--	--	248	--
	298	M	138	149	174	184	193	201	207	215	-	228	-	229	--	--	236	--

-- = No data  
 d = Animal dead, euthanized

Immunotoxicity Assessment of Hexamethylsiloxane (HMDS) Following a 28-Day Continuous  
 Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Group	Animal	Sex	Day 1	Day 4	Day 8	Day 11	Day 15	Day 18	Day 22	Day 25	NK Males	Day 29	Day 30	Day 31	Day 32	Day 35	Day 36	Body Weight (g)
Intra-assay	301	M	153	163	190	203	218	228	236	243	-	239	-	236	d	d	d	d
Control (0 ppm)	302	M	145	160	187	201	216	226	235	243	-	242	-	232	d	d	d	d
	303	M	152	163	181	195	206	214	222	230	-	229	-	226	d	d	d	d
	304	M	137	148	168	181	190	197	206	212	-	211	-	201	d	d	d	d
	305	M	147	161	181	197	209	221	229	234	-	229	-	218	d	d	d	d
	306	M	139	152	170	188	206	213	224	232	-	226	-	204	d	d	d	d
	307	M	157	168	195	210	223	232	243	252	-	247	-	236	d	d	d	d
	308	M	146	161	180	197	207	215	228	237	-	229	-	222	d	d	d	d
	309	M	150	159	181	192	198	206	211	217	-	210	-	200	d	d	d	d
	310	M	147	161	182	200	212	222	232	244	-	240	-	230	d	d	d	d
	321	M	126	171	192	201	216	227	240	245	-	251	-	228	d	d	d	d
	322	M	154	166	184	197	205	214	221	229	-	235	-	211	d	d	d	d
	323	M	143	159	175	186	197	206	213	219	-	224	-	204	d	d	d	d
	324	M	143	157	178	188	199	208	219	227	-	228	-	208	d	d	d	d
	325	M	144	164	181	194	210	219	233	243	-	249	-	224	d	d	d	d
	326	M	149	168	186	195	206	213	226	232	-	233	-	212	d	d	d	d
	327	M	144	158	172	181	194	201	212	221	-	226	-	203	d	d	d	d
	328	M	145	164	182	195	211	221	237	245	-	251	-	227	d	d	d	d
	329	M	147	162	178	186	190	195	198	202	-	204	-	186	d	d	d	d
	330	M	131	150	167	174	189	198	208	213	-	219	-	198	d	d	d	d

-- = No data  
 d = Animal dead, euthanized

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Group	Animal	Sex	Day 1	Day 4	Day 8	Day 11	Day 15	Day 18	Day 22	Day 25	NK Males	Day 29	Day 30	Day 31	Day 32	Day 35	Day 36	Body Weight (g)
Filtered	11	F	122	121	138	145	151	154	157	162	-	164	-	-	-	163	d	d
Air Control	12	F	126	127	136	142	144	146	150	156	-	160	-	-	-	161	d	d
(0 ppm)	13	F	121	123	132	136	141	144	148	148	-	151	-	-	-	156	d	d
	14	F	127	133	141	148	153	156	160	164	-	166	-	-	-	166	d	d
	15	F	125	130	140	148	150	156	158	157	-	159	-	-	-	161	d	d
	16	F	127	131	143	147	152	159	164	163	-	169	-	-	-	171	d	d
	17	F	119	123	134	140	142	148	150	151	-	152	-	-	-	154	d	d
	18	F	135	138	145	150	157	157	158	164	-	164	-	-	-	160	d	d
	19	F	126	129	143	151	152	157	161	164	-	167	-	-	-	169	d	d
	20	F	124	125	137	142	148	149	150	157	-	157	-	-	-	161	d	d
	31	F	123	128	133	140	145	146	154	155	-	159	141	d	d	d	d	d
	32	F	120	122	132	138	142	147	156	159	-	161	145	d	d	d	d	d
	33	F	132	132	135	144	143	149	153	157	-	156	140	d	d	d	d	d
	34	F	121	129	133	141	143	148	152	154	-	158	141	d	d	d	d	d
	35	F	126	129	140	145	149	152	160	158	-	157	141	d	d	d	d	d
	36	F	126	130	140	144	147	150	154	156	-	156	142	d	d	d	d	d
	37	F	130	133	138	141	143	147	151	153	-	155	140	d	d	d	d	d
	38	F	127	131	137	141	143	147	152	155	-	152	141	d	d	d	d	d
	39	F	124	131	141	141	149	153	158	163	-	164	147	d	d	d	d	d
	40	F	123	129	137	141	150	153	160	163	-	166	150	d	d	d	d	d
	43	F	125	134	142	148	150	156	161	160	-	164	d	d	d	d	d	d
	44	F	127	136	144	149	156	157	163	168	-	170	d	d	d	d	d	d
	47	F	127	129	134	139	145	146	151	152	-	153	157	d	d	d	d	d
	48	F	120	123	130	135	138	142	151	154	-	154	156	d	d	d	d	d
	51	F	125	129	137	140	144	146	148	150	-	152	-	152	d	d	d	d
	52	F	127	136	140	148	152	157	162	164	-	169	-	-	-	169	d	d
	55	F	120	121	129	133	137	140	141	143	-	142	-	-	-	146	147	d
	56	F	123	128	134	137	142	145	147	152	-	155	-	-	-	157	161	d
	59	F	129	134	140	148	156	157	156	161	-	162	-	-	-	164	-	-
	60	F	130	115	144	148	152	155	158	158	-	162	-	-	-	166	-	-

- = No data  
 d = Animal dead, euthanized

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Group	Animal	Sex	Day 1	Day 4	Day 8	Day 11	Day 15	Day 18	Day 22	Day 25	NK Males	Day 29	Day 30	Day 31	Day 32	Day 35	Day 36	Body Weight (g)											
																		Day 11	Day 15	Day 18	Day 22	Day 25	NK Males	Day 29	Day 30	Day 31	Day 32	Day 35	Day 36
HMDS (50 ppm)	71	F	123	125	133	138	139	140	142	-	-	-	-	-	-	-	-	142	d	d	d	d	d	d	d	d	d	d	d
	72	F	127	127	136	139	143	150	153	154	-	-	158	-	-	-	-	159	d	d	d	d	d	d	d	d	d	d	d
	73	F	126	127	135	137	141	146	152	155	-	-	159	-	-	-	-	158	d	d	d	d	d	d	d	d	d	d	d
	74	F	123	128	139	144	149	151	159	160	-	-	164	-	-	-	-	167	d	d	d	d	d	d	d	d	d	d	d
	75	F	121	125	134	138	142	144	145	148	-	-	151	-	-	-	-	149	d	d	d	d	d	d	d	d	d	d	d
	76	F	132	129	142	148	149	149	151	155	-	-	153	-	-	-	-	158	d	d	d	d	d	d	d	d	d	d	d
	77	F	127	129	139	140	144	147	152	155	-	-	159	-	-	-	-	159	d	d	d	d	d	d	d	d	d	d	d
	78	F	124	123	137	141	144	148	152	156	-	-	157	-	-	-	-	161	d	d	d	d	d	d	d	d	d	d	d
	79	F	126	125	137	141	143	149	153	156	-	-	158	-	-	-	-	160	d	d	d	d	d	d	d	d	d	d	d
	80	F	123	127	141	143	146	148	152	159	-	-	158	-	-	-	-	158	d	d	d	d	d	d	d	d	d	d	d
	91	F	128	135	146	150	152	158	163	164	-	-	169	-	-	-	-	152	d	d	d	d	d	d	d	d	d	d	d
	92	F	123	127	134	134	135	137	137	139	-	-	143	-	-	-	-	127	d	d	d	d	d	d	d	d	d	d	d
	93	F	118	124	134	136	141	143	145	150	-	-	154	-	-	-	-	138	d	d	d	d	d	d	d	d	d	d	d
	94	F	124	126	134	138	142	145	150	153	-	-	157	-	-	-	-	139	d	d	d	d	d	d	d	d	d	d	d
	95	F	124	127	137	139	145	149	153	156	-	-	162	-	-	-	-	144	d	d	d	d	d	d	d	d	d	d	d
	96	F	133	135	141	147	151	155	163	165	-	-	167	-	-	-	-	152	d	d	d	d	d	d	d	d	d	d	d
	97	F	132	135	142	145	149	151	156	160	-	-	161	-	-	-	-	145	d	d	d	d	d	d	d	d	d	d	d
	98	F	126	131	139	142	146	152	156	158	-	-	162	-	-	-	-	144	d	d	d	d	d	d	d	d	d	d	d
	99	F	124	127	140	138	143	148	151	152	-	-	159	-	-	-	-	142	d	d	d	d	d	d	d	d	d	d	d
	100	F	129	135	142	149	151	159	163	164	-	-	171	-	-	-	-	153	d	d	d	d	d	d	d	d	d	d	d
	103	F	131	133	141	140	147	148	150	158	-	-	163	-	-	-	-	166	d	d	d	d	d	d	d	d	d	d	d
	104	F	123	127	131	137	141	141	144	150	-	-	155	-	-	-	-	158	d	d	d	d	d	d	d	d	d	d	d
	112	F	123	124	138	144	147	149	155	155	-	-	157	-	-	-	-	159	d	d	d	d	d	d	d	d	d	d	d
	115	F	127	129	140	146	150	153	162	162	-	-	165	-	-	-	-	168	d	d	d	d	d	d	d	d	d	d	d
	116	F	125	125	136	142	147	151	156	161	-	-	164	-	-	-	-	167	d	d	d	d	d	d	d	d	d	d	d
	119	F	122	125	136	141	148	150	156	158	-	-	160	-	-	-	-	158	d	d	d	d	d	d	d	d	d	d	d
	120	F	130	131	143	146	157	153	162	167	-	-	167	-	-	-	-	173	d	d	d	d	d	d	d	d	d	d	d

-- = No data  
 d = Animal dead, euthanized

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
 Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Group	Animal	Sex	Day 1	Day 4	Day 8	Day 11	Day 15	Day 18	Day 22	Day 25	NK Males	Day 29	Day 30	Day 31	Day 32	Day 33	Day 34	Day 35	Day 36	Body Weight (g)
HMDS (200 ppm)	131	F	126	128	136	134	143	145	146	156	-	154	-	-	154	d	d	d	d	d
	132	F	123	125	134	141	143	145	152	159	-	156	-	-	156	d	d	d	d	d
	133	F	124	126	135	114	115	121	130	144	-	150	-	-	148	d	d	d	d	d
	134	F	122	123	134	141	145	147	153	161	-	156	-	-	160	P	P	P	P	P
	135	F	132	134	144	150	151	157	164	170	-	168	-	-	170	P	P	P	P	P
	136	F	122	127	135	140	142	149	154	159	-	159	-	-	163	P	P	P	P	P
	137	F	125	130	142	144	148	153	156	162	-	164	-	-	167	P	P	P	P	P
	138	F	127	128	136	141	148	148	153	162	-	160	-	-	160	P	P	P	P	P
	139	F	122	124	132	136	141	141	145	153	-	153	-	-	151	P	P	P	P	P
	140	F	147	123	133	137	143	144	149	156	-	155	-	-	158	P	P	P	P	P
	151	F	125	127	140	146	149	151	158	166	-	162	-	-	167	d	d	d	d	d
	152	F	127	131	141	145	152	157	160	166	-	161	-	-	160	P	P	P	P	P
	153	F	121	127	141	142	149	153	154	161	-	160	-	-	144	d	d	d	d	d
	154	F	126	132	144	147	152	155	158	163	-	164	-	-	147	d	d	d	d	d
	155	F	124	129	143	148	153	153	159	168	-	165	-	-	148	d	d	d	d	d
	156	F	129	136	146	151	154	161	166	169	-	172	-	-	155	d	d	d	d	d
	157	F	126	128	135	138	143	148	153	161	-	163	-	-	142	d	d	d	d	d
	158	F	122	124	133	133	135	138	141	147	-	147	-	-	130	d	d	d	d	d
	159	F	122	130	140	146	150	158	164	168	-	170	-	-	152	d	d	d	d	d
	160	F	132	134	142	148	153	156	164	171	-	171	-	-	153	d	d	d	d	d
	163	F	124	131	142	147	153	157	161	169	-	168	-	-	142	d	d	d	d	d
	164	F	124	131	141	145	150	156	158	167	-	167	-	-	162	d	d	d	d	d
	167	F	131	134	146	151	154	160	164	167	-	167	-	-	160	d	d	d	d	d
	168	F	133	138	147	152	150	159	162	168	-	168	-	-	156	d	d	d	d	d
	171	F	123	128	136	138	141	144	145	155	-	152	-	-	152	d	d	d	d	d
	172	F	127	126	139	145	150	153	158	163	-	161	-	-	162	d	d	d	d	d
	175	F	121	124	130	138	139	143	143	148	-	148	-	-	149	-	-	150	d	d
	176	F	122	124	135	142	148	151	154	163	-	165	-	-	167	d	d	d	d	d
	179	F	122	125	139	142	147	151	154	159	-	162	-	-	168	-	-	168	-	-
	180	F	125	126	133	137	142	148	152	152	-	152	-	-	155	-	-	155	-	-

-- = No data  
 d = Animal dead, euthanized

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
 Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Group	Animal	Sex	Day 1	Body Weight (g)												
				Day 4	Day 8	Day 11	Day 15	Day 18	Day 22	Day 25	NK Males	Day 29	Day 30	Day 31	Day 32	Day 33
HMDS (1000 ppm)	191	F	123	128	134	140	141	147	149	154	--	154	--	155	d	d
	192	F	130	136	143	144	149	155	160	162	--	168	--	171	d	d
	193	F	126	126	136	140	143	149	157	157	--	158	--	161	d	d
	194	F	130	128	136	143	145	150	153	158	--	159	--	163	d	d
	195	F	129	128	135	140	146	150	155	157	--	163	--	165	d	d
	196	F	120	124	131	139	143	145	146	151	--	153	--	155	d	d
	197	F	115	127	134	135	137	141	142	144	--	143	--	143	d	d
	198	F	113	125	132	136	143	145	150	151	--	158	--	157	d	d
	199	F	113	125	138	145	149	153	156	158	--	160	--	163	d	d
	200	F	117	104	132	140	146	151	152	156	--	160	--	159	d	d
	211	F	110	128	135	141	144	149	156	157	--	161	144	d	d	d
	212	F	111	126	129	136	140	145	148	149	--	155	139	d	d	d
	213	F	125	128	136	140	145	150	153	154	--	158	143	d	d	d
	214	F	124	128	133	142	145	145	147	151	--	154	138	d	d	d
	215	F	123	122	128	137	141	145	150	154	--	159	142	d	d	d
	216	F	125	127	132	137	141	145	152	154	--	158	142	d	d	d
	217	F	127	130	134	141	144	150	154	154	--	158	142	d	d	d
	218	F	132	139	142	146	150	152	151	151	--	159	142	d	d	d
	219	F	124	127	136	140	147	152	155	155	--	160	144	d	d	d
	220	F	127	135	139	146	155	161	160	163	--	171	152	d	d	d
	223	F	126	132	134	138	144	148	152	155	--	157	d	d	d	d
	224	F	129	135	137	145	148	149	156	157	--	160	d	d	d	d
	227	F	131	135	142	148	153	156	159	161	--	163	164	d	d	d
	228	F	129	131	137	141	143	146	148	149	--	151	149	d	d	d
	231	F	125	127	132	138	141	146	151	153	--	158	--	159	d	d
	232	F	125	132	135	141	145	154	155	158	--	163	--	164	d	d
	235	F	124	128	135	140	144	149	151	152	--	157	--	164	158	d
	236	F	121	128	137	143	147	151	156	158	--	164	--	164	167	d
	239	F	127	125	136	141	145	146	151	151	--	152	--	157	--	158
	240	F	131	131	137	140	150	150	152	152	--	157	--	159	--	163

-- = No data  
 d = Animal dead, euthanized

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
 Whole-Body Inhalation Exposure in Fischer 344 Rats

**Appendix B - Individual Animal Data**

Group	Animal	Sex	Body Weight (g)													
			Day 1	Day 4	Day 8	Day 11	Day 15	Day 18	Day 22	Day 25	NK Males	Day 29	Day 30	Day 31	Day 32	
HMDS (5000 ppm)	251	F	124	130	141	150	153	156	161	163	-	-	-	163	d	
	252	F	125	127	136	141	143	148	149	-	151	-	-	155	d	
	253	F	123	128	135	137	142	145	147	151	-	155	-	153	d	
	254	F	126	126	135	140	142	148	147	151	-	156	-	159	d	
	255	F	117	122	129	136	139	144	148	150	-	151	-	159	d	
	256	F	129	134	140	146	149	150	152	-	156	-	-	156	d	
	257	F	128	132	138	139	144	146	145	151	-	155	-	157	d	
	258	F	123	130	133	141	144	147	148	-	153	-	-	152	d	
	259	F	122	123	134	140	146	152	154	155	-	159	-	-	161	d
	260	F	127	127	135	135	140	143	145	148	-	135	-	-	155	d
	271	F	122	128	137	140	147	151	155	157	-	161	145	d	p	
	272	F	129	135	143	144	149	154	159	161	-	162	147	p	p	
	273	F	123	126	136	138	141	144	149	148	-	153	136	p	p	
	274	F	120	124	131	137	140	142	145	146	-	151	136	p	p	
	275	F	123	127	134	139	146	150	154	157	-	162	145	p	p	
	276	F	123	126	129	132	137	141	143	145	-	150	134	p	p	
	277	F	125	134	138	145	153	155	162	163	-	168	150	p	p	
	278	F	121	123	132	132	137	140	144	146	-	154	138	p	p	
	279	F	124	129	137	142	148	151	156	158	-	160	145	p	p	
	280	F	121	122	128	133	138	142	148	154	-	155	142	p	p	
	283	F	123	124	127	133	135	138	142	142	-	147	d	p	p	
	284	F	122	127	137	140	147	150	154	157	-	159	d	p	p	
	287	F	121	125	134	141	148	151	153	156	-	160	161	d	d	
	288	F	118	122	128	133	138	141	142	148	-	151	150	d	d	
	291	F	127	131	138	138	142	144	143	146	-	148	-	148	d	
	292	F	126	132	139	142	147	150	154	156	-	162	-	-	162	d
	295	F	128	131	139	142	143	147	154	156	-	162	-	-	165	d
	296	F	127	131	137	141	143	147	151	153	-	158	-	-	156	d
	299	F	122	126	132	136	139	143	145	147	-	150	-	-	150	--
	300	F	118	122	129	133	135	142	144	147	-	151	-	-	151	--

-- = No data  
 d = Animal dead, euthanized

**Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
 Whole-Body Inhalation Exposure in Fischer 344 Rats**

**Appendix B - Individual Animal Data**

Group	Animal	Sex	Day 1	Day 4	Day 8	Day 11	Day 15	Day 18	Day 22	Day 25	NK Males	Day 29	Day 30	Day 31	Day 32	Day 35	Day 36	Body Weight (g)		
																		Day 16	Day 19	Day 23
Intra-assay	311	F	126	132	143	148	150	147	153	154	-	-	152	-	-	-	-	d	d	d
Control (0 ppm)	312	F	122	126	140	144	147	147	156	157	-	-	156	-	-	-	-	d	d	d
	313	F	126	127	138	141	150	152	156	160	-	-	157	-	-	-	-	d	d	d
	314	F	118	122	125	131	140	145	149	152	-	-	153	-	-	-	-	d	d	d
	315	F	124	132	143	150	157	158	159	161	-	-	161	-	-	-	-	d	d	d
	316	F	124	127	137	145	151	153	158	159	-	-	159	-	-	-	-	d	d	d
	317	F	121	126	139	143	148	151	157	157	-	-	156	-	-	-	-	d	d	d
	318	F	120	123	131	134	140	141	148	150	-	-	147	-	-	-	-	d	d	d
	319	F	133	133	145	147	149	149	156	159	-	-	162	-	-	-	-	d	d	d
	320	F	128	130	145	151	154	158	162	166	-	-	165	-	-	-	-	d	d	d
	331	F	125	134	143	150	153	158	165	169	-	-	170	154	d	d	d	d	d	d
	332	F	127	132	137	142	150	154	162	155	-	-	161	144	d	d	d	d	d	d
	333	F	126	134	139	146	151	156	158	164	-	-	168	147	d	d	d	d	d	d
	334	F	122	127	138	142	151	155	161	163	-	-	168	151	d	d	d	d	d	d
	335	F	120	122	129	132	137	139	143	148	-	-	151	136	d	d	d	d	d	d
	336	F	122	130	138	145	148	150	157	159	-	-	162	144	d	d	d	d	d	d
	337	F	126	129	138	140	146	150	148	155	-	-	158	143	d	d	d	d	d	d
	338	F	131	132	141	148	153	155	161	166	-	-	168	151	d	d	d	d	d	d
	339	F	125	131	135	145	152	155	162	167	-	-	168	153	d	d	d	d	d	d
	340	F	121	127	133	142	149	153	160	161	-	-	165	147	d	d	d	d	d	d

-- = No data  
 d = Animal dead, euthanized

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
 Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Group	Animal	Sex	Body Weight Gain (g)												Total	Gain <sup>b</sup>
			Day 4	Day 8	Day 11	Day 15	Day 18	Day 22	Day 25	NK Males	Day 29	Day 30	Day 31	Day 32	Day 34	Day 36
Filtered	1	M	9	17	14	17	7	13	7	-	-	-	d	d	d	84
Air Control (0 ppm)	2	M	8	22	15	14	11	11	7	-	-	-	d	d	d	88
	3	M	13	25	15	11	7	12	3	-	-	-	d	d	d	86
	4	M	6	25	16	10	8	8	6	-	-	-	d	d	d	79
	5	M	8	23	12	8	7	10	5	-	-	-	d	d	d	73
	6	M	12	18	12	12	8	8	8	-	-	-	d	d	d	78
	7	M	9	24	11	12	11	13	6	-	-	-	d	d	d	86
	8	M	15	26	14	14	11	10	9	-	-	-	d	d	d	99
	9	M	7	23	12	17	6	12	6	-	-	-	d	d	d	83
	10	M	9	24	13	13	5	9	9	-	-	-	d	d	d	82
	21	M	14	16	14	10	11	8	8	-	-	-	d	d	d	81
	22	M	12	20	13	12	8	9	8	-	-	-	d	d	d	82
	23	M	16	18	9	10	9	10	3	-	-	-	d	d	d	75
	24	M	18	22	15	13	12	11	6	-	-	-	d	d	d	97
	25	M	14	18	12	9	7	8	4	-	-	-	d	d	d	72
	26	M	14	20	10	15	5	4	2	-	-	-	d	d	d	70
	27	M	11	21	12	10	7	7	7	-	-	-	d	d	d	75
	28	M	13	19	17	12	10	14	9	-	-	-	d	d	d	94
	29	M	14	20	15	11	8	13	4	-	-	-	d	d	d	85
	30	M	13	21	11	8	6	13	9	-	-	-	d	d	d	81
	41	M	15	21	19	13	10	7	8	-	-	-	d	d	d	93
	42	M	15	17	16	14	10	12	11	-	-	-	d	d	d	95
	45	M	40	19	11	16	6	14	8	-	-	-	d	d	d	114
	46	M	13	17	7	13	8	14	8	-	-	-	d	d	d	80
	49	M	12	27	13	16	5	7	7	-	-	-	d	d	d	87
	50	M	16	19	14	14	9	11	9	-	-	-	d	d	d	92
	53	M	14	23	8	9	11	8	13	-	-	-	d	d	d	86
	54	M	13	28	12	9	10	9	9	-	-	-	d	d	d	90
	57	M	13	23	9	15	9	14	11	-	-	-	d	d	d	94
	58	M	10	22	13	14	9	7	7	-	-	-	d	d	d	82

<sup>a</sup> Day = Study Day; <sup>b</sup> Gain = Day 1 through Day 25  
 -- = No data; d = Animal dead, euthanized; f = fasted weight

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
 Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Group	Animal	Sex	Day <sup>a</sup> 4	Body Weight Gain (g)												Total Gain <sup>b</sup>
				Day 8	Day 11	Day 15	Day 18	Day 22	Day 25	NK Males	Day 29	Day 30	Day 31	Day 32	Day 35	Day 36
HMDS (50 ppm)	61	M	14	14	15	11	7	7	7	-	-	-	d	d	d	75
	62	M	13	16	9	11	3	6	9	-	-	-	d	d	d	67
	63	M	15	16	10	9	7	11	7	-	-	-	d	d	d	75
	64	M	23	16	14	9	10	10	7	-	-	-	d	d	d	89
	65	M	18	18	16	11	10	12	7	-	-	-	d	d	d	92
	66	M	16	20	17	12	12	17	10	-	-	-	d	d	d	104
	67	M	18	17	14	12	8	11	5	-	-	-	d	d	d	85
	68	M	16	23	10	14	11	9	8	-	-	-	d	d	d	91
	69	M	13	22	13	8	8	8	5	-	-	-	d	d	d	77
	70	M	20	25	15	11	8	9	8	-	-	-	d	d	d	96
	81	M	13	13	12	4	5	5	9	-	-	-	d	d	d	63
	82	M	13	12	11	9	7	11	10	-	-	-	d	d	d	73
	83	M	23	19	15	9	12	12	12	-	-	-	d	d	d	102
	84	M	15	20	8	13	10	10	8	-	-	-	d	d	d	84
	85	M	16	21	13	8	9	10	11	-	-	-	d	d	d	88
	86	M	13	16	13	10	7	13	5	-	-	-	d	d	d	77
	87	M	15	18	9	9	9	8	10	-	-	-	d	d	d	78
	88	M	13	19	6	13	9	14	9	-	-	-	d	d	d	83
	89	M	16	19	10	14	7	14	6	-	-	-	d	d	d	86
	90	M	7	18	13	16	7	12	8	-	-	-	d	d	d	81
	101	M	16	17	12	8	10	7	8	-	-	-	d	d	d	78
	102	M	12	23	8	13	7	5	8	-	-	-	d	d	d	76
	103	M	29	22	8	10	7	10	6	-	-	-	d	d	d	92
	106	M	15	20	9	12	9	8	9	-	-	-	d	d	d	82
	109	M	14	26	12	14	7	13	8	-	-	-	d	d	d	94
	110	M	15	23	12	15	7	14	8	-	-	-	d	d	d	94
	113	M	16	21	5	11	12	13	9	-	-	-	d	d	d	87
	114	M	12	18	6	11	6	10	6	-	-	-	d	d	d	69
	117	M	17	28	14	21	15	14	11	-	-	-	d	d	d	120
	118	M	14	21	7	15	10	9	9	-	-	-	d	d	d	85

<sup>a</sup> Day = Study Day; <sup>b</sup> Gain = Day 1 through Day 25  
 -- = No data; d = Animal dead, euthanized; f = fasted weight

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
 Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Group	Animal	Sex	Day <sup>a</sup> 4	Day <sup>a</sup> 8	Day <sup>a</sup> 11	Day <sup>a</sup> 15	Day <sup>a</sup> 18	Day <sup>a</sup> 22	Day <sup>a</sup> 25	NK Males	Day <sup>a</sup> 29	Day <sup>a</sup> 30	Day <sup>a</sup> 31	Day <sup>a</sup> 32	Day <sup>a</sup> 35	Day <sup>a</sup> 36	Total	Gain <sup>b</sup>
HMDS (200 ppm)	121	M	16	19	11	10	6	6	9	-	-	-	-	-	-	-	77	94
	122	M	12	16	17	14	7	13	15	-	-	-	-	-	-	-	91	91
	123	M	17	20	12	10	9	11	6	-	-	-	-	-	-	-	66	66
	124	M	17	11	10	8	5	9	12	-	-	-	-	-	-	-	86	86
	125	M	12	16	14	11	9	12	13	-	-	-	-	-	-	-	95	95
	126	M	13	17	14	14	10	14	13	-	-	-	-	-	-	-	90	90
	127	M	13	17	14	15	8	14	9	-	-	-	-	-	-	-	107	107
	128	M	17	22	12	19	9	12	16	-	-	-	-	-	-	-	76	76
	129	M	11	18	9	10	6	10	12	-	-	-	-	-	-	-	94	94
	130	M	14	21	15	10	11	10	13	-	-	-	-	-	-	-	99	99
	141	M	31	18	9	13	7	11	10	4	-	-	-	-	-	-	74	74
	142	M	13	17	11	9	5	10	9	1	-	-	-	-	-	-	67	67
	143	M	10	14	9	10	4	7	13	-1	-	-	-	-	-	-	85	85
	144	M	13	20	13	11	6	10	12	2	-	-	-	-	-	-	68	68
	145	M	11	16	9	11	6	6	9	-1	-	-	-	-	-	-	90	90
	146	M	13	20	14	13	6	12	12	-1	-	-	-	-	-	-	66	66
	147	M	10	15	12	5	7	6	11	0	-	-	-	-	-	-	89	89
	148	M	10	24	10	13	6	14	12	2	-	-	-	-	-	-	71	71
	149	M	11	17	10	13	2	7	11	2	-	-	-	-	-	-	71	71
	150	M	7	17	10	14	11	10	13	1	-	-	-	-	-	-	82	82
	161	M	13	18	11	9	7	4	14	-	-	-	-	-	-	-	76	76
	162	M	14	22	8	11	8	14	9	-	-	-	-	-	-	-	86	86
	165	M	10	17	9	11	5	10	13	2	-	-	-	-	-	-	75	75
	166	M	16	21	13	13	10	14	12	1	-	-	-	-	-	-	99	99
	169	M	10	17	9	11	6	7	6	-	-	-	-	-	-	-	66	66
	170	M	10	18	11	8	7	7	8	-	-	-	-	-	-	-	69	69
	173	M	11	25	6	7	6	10	11	-	-	-	-	-	-	-	76	76
	174	M	9	27	9	13	8	13	13	-	-	-	-	-	-	-	92	92
	177	M	13	25	9	12	7	11	10	-	-	-	-	-	-	-	87	87
	178	M	10	20	6	9	6	9	9	-	-	-	-	-	-	-	69	69

<sup>a</sup> Day = Study Day; <sup>b</sup> Gain = Day 1 through Day 25  
 ... = No data; d = Animal dead, euthanized; f = fasted weight

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
 Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Group	Animal	Sex	Day <sup>a</sup>	Body Weight Gain (g)												Total	Gain <sup>b</sup>	
				Day 1	Day 8	Day 11	Day 15	Day 18	Day 22	Day 24	NK Males	Day 29	Day 30	Day 31	Day 32	Day 33	Day 34	
HMDS (1000 ppm)	181	M	12	21	14	17	7	13	3	-	-	d	d	d	d	d	d	87
	182	M	9	24	16	17	11	13	7	-	-	p	p	p	p	p	p	97
	183	M	15	22	13	15	11	12	10	-	-	p	p	p	p	p	p	98
	184	M	16	17	10	14	3	9	5	-	-	p	p	p	p	p	p	74
	185	M	13	19	11	15	8	12	7	-	-	p	p	p	p	p	p	85
	186	M	8	17	11	13	11	10	7	-	-	p	p	p	p	p	p	77
	187	M	16	18	13	14	6	11	6	-	-	p	p	p	p	p	p	84
	188	M	14	23	12	15	7	12	7	-	-	p	p	p	p	p	p	90
	189	M	15	21	11	9	6	9	1	-	-	p	p	p	p	p	p	72
	190	M	13	20	14	13	7	12	5	-	-	p	p	p	p	p	p	84
	201	M	28	22	11	13	8	11	7	-	-	f	f	f	f	f	f	100
	202	M	29	20	12	12	9	13	2	-	-	p	p	p	p	p	p	97
	203	M	23	18	13	12	7	9	4	-	-	p	p	p	p	p	p	86
	204	M	23	19	11	16	6	13	6	-	-	p	p	p	p	p	p	94
	205	M	27	16	11	8	4	7	4	-	-	p	p	p	p	p	p	77
	206	M	28	20	12	13	10	12	7	-	-	p	p	p	p	p	p	102
	207	M	31	21	7	14	10	11	5	-	-	p	p	p	p	p	p	99
	208	M	28	19	13	14	6	15	2	-	-	p	p	p	p	p	p	97
	209	M	24	18	10	14	2	12	5	-	-	p	p	p	p	p	p	85
	210	M	29	25	12	16	12	13	8	-	-	p	p	p	p	p	p	62
	221	M	14	16	8	7	5	11	5	-	-	p	p	p	p	p	p	84
	222	M	13	21	12	16	9	11	6	-	-	p	p	p	p	p	p	66
	225	M	5	13	11	12	8	9	4	-	-	p	p	p	p	p	p	88
	226	M	11	19	15	15	7	10	7	-	-	p	p	p	p	p	p	90
	229	M	13	21	14	17	8	12	5	-	-	p	p	p	p	p	p	75
	230	M	12	19	11	14	8	10	1	-	-	p	p	p	p	p	p	82
	233	M	14	25	9	12	6	13	3	-	-	p	p	p	p	p	p	75
	234	M	13	21	9	10	8	7	7	-	-	p	p	p	p	p	p	81
	237	M	13	27	9	11	7	9	5	-	-	p	p	p	p	p	p	78
	238	M	11	29	8	9	9	9	4	-	-	p	p	p	p	p	p	81

<sup>a</sup> Day = Study Day; <sup>b</sup> Gain = Day 1 through Day 25  
 -- = No data; d = Animal dead, euthanized; f = fasted weight

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
 Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Group	Animal	Sex	Day <sup>a</sup> 4	Day <sup>a</sup> 8	Day <sup>a</sup> 11	Day <sup>a</sup> 15	Day <sup>a</sup> 18	Day <sup>a</sup> 22	Day <sup>a</sup> 25	NK Males	Day <sup>a</sup> 29	Day <sup>a</sup> 30	Day <sup>a</sup> 31	Day <sup>a</sup> 32	Day <sup>a</sup> 33	Day <sup>a</sup> 35	Day <sup>a</sup> 36	Total	Gain <sup>b</sup>
																		Body Weight Gain (g)	
HMDS (5000 ppm)	241	M	8	19	11	10	9	10	2									69	
	242	M	18	21	12	10	13	10	9									93	
	243	M	12	18	10	11	9	10	8									78	
	244	M	13	15	12	9	11	13	8									81	
	245	M	14	18	11	8	7	8	8									74	
	246	M	12	17	11	11	10	9	10									80	
	247	M	12	18	15	14	11	16	5									91	
	248	M	7	16	5	16	10	8	9									71	
	249	M	12	16	11	11	8	11	6									75	
	250	M	15	17	12	11	9	11	7									82	
	261	M	12	17	12	14	10	11	11									87	
	262	M	9	18	10	14	6	11	8									76	
	263	M	11	14	11	11	7	12	12									78	
	264	M	11	17	9	13	6	15	9									80	
	265	M	11	22	9	10	6	8	6									72	
	266	M	8	16	11	11	9	7	9									71	
	267	M	13	18	12	16	11	8	8									86	
	268	M	14	20	10	11	10	10	7									82	
	269	M	13	23	10	13	10	10	9									88	
	270	M	14	16	14	9	9	8	7									77	
	281	M	10	17	9	11	6	9	5									67	
	282	M	13	18	11	18	7	15	5									87	
	283	M	42	21	15	19	8	12	9									126	
	286	M	34	18	16	13	9	12	8									110	
	289	M	17	18	16	16	10	10	8									95	
	290	M	8	21	9	11	9	10	8									76	
	293	M	12	24	8	12	8	7	6									77	
	294	M	11	25	10	13	8	10	7									84	
	297	M	12	27	6	9	10	8	9									81	
	298	M	11	25	10	9	6	8	6									77	

<sup>a</sup> Day = Study Day; <sup>b</sup> Gain = Day 1 through Day 25  
 -- = No data; d = Animal dead, euthanized; f = fasted weight

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
 Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Group	Animal	Sex	Day <sup>a</sup> 4	Body Weight Gain (g)												Total Gain <sup>b</sup>	
				Day 8	Day 11	Day 15	Day 18	Day 22	Day 25	NK Males	Day 29	Day 30	Day 31	Day 32	Day 35	Day 36	
Intra-assay Control (0 ppm)	301	M	10	27	13	15	10	8	7	-	-	-	d	d	d	d	90
	302	M	15	27	14	15	10	9	8	-	-	-	d	d	d	d	98
	303	M	11	18	14	11	8	8	8	-	-	-	d	d	d	d	78
	304	M	11	20	13	9	7	9	6	-	-	-	d	d	d	d	75
	305	M	14	20	16	12	12	8	5	-	-	-	d	d	d	d	87
	306	M	13	18	18	18	7	11	8	-	-	-	d	d	d	d	93
	307	M	11	27	15	13	9	11	9	-	-	-	d	d	d	d	95
	308	M	15	19	17	10	8	13	9	-	-	-	d	d	d	d	91
	309	M	9	22	11	6	8	5	6	-	-	-	d	d	d	d	67
	310	M	14	21	18	12	10	10	12	-	-	-	d	d	d	d	97
	321	M	45	21	9	15	11	13	5	6	f	f	d	d	d	d	119
	322	M	12	18	13	8	9	7	8	6	f	f	d	d	d	d	75
	323	M	16	16	11	11	9	7	6	5	f	f	d	d	d	d	76
	324	M	14	21	10	11	9	11	8	1	f	f	d	d	d	d	84
	325	M	20	17	13	16	9	14	10	6	f	f	d	d	d	d	99
	326	M	19	18	9	11	7	13	6	1	f	f	d	d	d	d	83
	327	M	14	14	9	13	7	11	9	5	f	f	d	d	d	d	77
	328	M	19	18	13	16	10	16	8	6	f	f	d	d	d	d	100
	329	M	15	16	8	4	5	3	4	2	f	f	d	d	d	d	55
	330	M	19	17	7	15	9	10	5	6	f	f	d	d	d	d	82

\* Day = Study Day;    b Gain = Day 1 through Day 25  
 ... = No data;    d = Animal dead, euthanized;    f = fasted weight

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
 Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Group	Animal	Sex	Day <sup>a</sup> 4	Day 8	Day 11	Day 15	Day 18	Day 22	Day 25	NK Males	Day 29	Day 30	Day 31	Day 32	Day 35	Day 36	Total	Gain <sup>b</sup>
																	Body Weight Gain (g)	
Filtered	11	F	-1	17	7	6	3	3	5	-	-	-	-	-	-	-	40	
Air Control (0 ppm)	12	F	1	9	6	2	2	4	6	-	-	-	-	-	-	-	30	
	13	F	2	9	4	5	3	4	0	-	-	-	-	-	-	-	27	
	14	F	6	8	7	5	3	4	4	-	-	-	-	-	-	-	37	
	15	F	5	10	8	2	6	2	-1	-	-	-	-	-	-	-	32	
	16	F	4	12	4	5	7	5	1	-	-	-	-	-	-	-	38	
	17	F	4	11	6	2	6	2	1	-	-	-	-	-	-	-	32	
	18	F	3	7	5	7	0	1	6	-	-	-	-	-	-	-	29	
	19	F	3	14	8	1	5	4	3	-	-	-	-	-	-	-	38	
	20	F	1	12	5	6	1	1	7	-	-	-	-	-	-	-	33	
	31	F	5	5	7	5	1	8	1	-	-	-	-	-	-	-	32	
	32	F	2	10	6	4	5	9	3	-	-	-	-	-	-	-	39	
	33	F	0	3	9	-1	6	4	4	-	-	-	-	-	-	-	39	
	34	F	8	4	8	2	5	4	2	-	-	-	-	-	-	-	33	
	35	F	3	11	5	4	3	3	4	-	-	-	-	-	-	-	32	
	36	F	4	10	4	3	2	4	4	-	-	-	-	-	-	-	30	
	37	F	3	5	3	2	4	4	2	-	-	-	-	-	-	-	23	
	38	F	4	6	4	2	4	5	3	-	-	-	-	-	-	-	28	
	39	F	7	10	0	8	4	9	3	-	-	-	-	-	-	-	39	
	40	F	6	8	4	9	3	7	5	-	-	-	-	-	-	-	42	
	43	F	9	8	6	2	6	5	5	-	-	-	-	-	-	-	35	
	44	F	9	8	5	7	1	6	5	-	-	-	-	-	-	-	41	
	47	F	2	5	5	6	1	5	1	-	-	-	-	-	-	-	25	
	48	F	3	7	5	3	4	4	4	-	-	-	-	-	-	-	34	
	51	F	4	8	3	4	2	2	2	-	-	-	-	-	-	-	25	
	52	F	9	4	8	4	5	5	5	-	-	-	-	-	-	-	37	
	55	F	1	8	4	4	3	1	2	-	-	-	-	-	-	-	23	
	56	F	5	6	3	5	3	2	5	-	-	-	-	-	-	-	29	
	59	F	5	6	8	8	1	2	5	-	-	-	-	-	-	-	32	
	60	F	-15	29	4	3	3	0	3	-	-	-	-	-	-	-	28	

<sup>a</sup> Day = Study Day; <sup>b</sup> Gain = Day 1 through Day 25  
 - = No data; d = Animal dead, euthanized; f = fasted weight

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
 Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Group	Animal	Sex	Day <sup>a</sup>	Body Weight Gain (g)												Total	Gain <sup>b</sup>
				Day 4	Day 8	Day 11	Day 15	Day 18	Day 22	Day 25	NK Males	Day 29	Day 30	Day 31	Day 32	Day 35	Day 36
HMDS (50 ppm)	71	F	2	8	5	1	0	1	2	3	1	3	1	2	3	3	19
	72	F	0	9	3	4	7	3	1	6	3	6	3	2	27	27	29
	73	F	1	8	2	4	5	2	8	1	3	4	2	3	23	23	28
	74	F	5	11	5	5	2	8	1	3	4	4	3	4	37	37	37
	75	F	4	9	4	4	2	1	3	4	4	3	4	3	28	28	28
	76	F	-3	13	6	1	0	2	6	4	2	6	4	3	30	30	30
	77	F	2	10	1	4	3	4	4	3	4	3	4	3	36	36	36
	78	F	-1	14	4	3	4	4	3	4	4	3	4	3	36	36	36
	79	F	-1	12	4	2	3	2	4	4	3	2	4	3	32	32	32
	80	F	4	14	2	3	2	3	2	4	4	3	2	3	31	31	31
	91	F	7	11	4	2	6	5	1	2	0	2	5	3	32	32	32
	92	F	4	7	0	1	2	5	2	0	2	5	3	2	29	29	29
	93	F	6	10	2	5	2	5	2	0	2	5	3	2	32	32	32
	94	F	2	8	4	4	3	4	4	4	4	3	4	3	28	28	28
	95	F	3	10	2	6	6	4	4	4	4	3	4	3	32	32	32
	96	F	2	6	6	6	4	4	4	4	4	3	4	3	35	35	35
	97	F	3	7	3	4	3	4	4	5	5	3	4	2	27	27	27
	98	F	5	8	3	4	3	4	4	5	5	3	4	2	28	28	28
	99	F	3	13	-2	5	5	3	4	5	5	3	4	2	31	31	31
	100	F	6	7	7	7	2	8	4	1	2	8	4	1	40	40	40
	103	F	2	8	-1	7	1	7	1	2	8	4	1	2	36	36	36
	104	F	4	4	6	4	6	4	6	4	0	3	6	0	39	39	39
	107	F	15	-11	4	1	5	3	0	3	5	4	5	5	36	36	36
	108	F	4	11	6	5	4	5	4	5	2	2	4	4	39	39	39
	111	F	5	9	4	5	2	2	6	0	3	7	3	4	36	36	36
	112	F	1	14	6	3	2	6	0	3	7	3	4	4	36	36	36
	115	F	2	11	6	4	3	7	3	7	3	4	4	4	36	36	36
	116	F	3	9	10	4	4	4	4	4	4	4	4	4	39	39	39
	119	F	3	11	5	7	2	6	2	6	2	6	2	5	36	36	36
	120	F	1	12	3	7	4	5	5	5	5	5	5	5	37	37	37

<sup>a</sup> Day = Study Day; <sup>b</sup> Gain = Day 1 through Day 25  
 - = No data; d = Animal dead, euthanized; f = fasted weight

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Group	Animal	Sex	Day <sup>a</sup> 4	Day <sup>a</sup> 8	Day <sup>a</sup> 11	Day <sup>a</sup> 15	Day <sup>a</sup> 18	Day <sup>a</sup> 22	Day <sup>a</sup> 25	NK Males	Day <sup>a</sup> 29	Day <sup>a</sup> 30	Day <sup>a</sup> 31	Day <sup>a</sup> 32	Day <sup>a</sup> 33	Day <sup>a</sup> 35	Day <sup>a</sup> 36	Total	Gain <sup>b</sup>
HMDS (200 ppm)	131	F	2	8	-2	9	2	1	10	1	7	7	14	6	9	10	30	30	30
	132	F	2	9	7	2	2	2	7	2	6	6	8	6	5	7	36	36	36
	133	F	2	9	-21	1	6	1	6	1	6	7	5	5	5	6	20	20	20
	134	F	1	11	7	4	2	6	6	6	6	8	6	5	5	7	39	39	39
	135	F	2	10	6	1	6	1	6	1	6	7	5	5	5	6	38	38	38
	136	F	5	8	5	2	7	5	5	5	5	5	5	5	5	5	37	37	37
	137	F	5	12	2	4	5	0	0	0	0	4	8	5	5	5	37	37	37
	138	F	1	8	5	7	0	0	0	0	0	4	8	5	5	5	35	35	35
	139	F	2	8	4	5	0	0	0	0	0	4	8	5	5	5	31	31	31
	140	F	-24	10	4	6	1	5	5	5	5	7	8	5	5	5	9	9	9
	151	F	2	13	6	3	2	7	3	3	3	5	6	5	5	5	41	41	41
	152	F	4	10	4	7	5	3	3	3	3	5	6	5	5	5	39	39	39
	153	F	6	14	1	7	4	1	7	4	1	7	8	5	5	5	40	40	40
	154	F	6	12	3	5	5	3	3	3	3	5	6	5	5	5	37	37	37
	155	F	5	14	5	5	5	3	3	3	3	5	6	5	5	5	44	44	44
	156	F	7	10	5	3	5	3	3	3	3	5	6	5	5	5	39	39	39
	157	F	2	7	3	5	5	3	3	3	3	5	6	5	5	5	40	40	40
	158	F	2	9	0	2	0	2	3	3	3	6	4	4	4	4	35	35	35
	159	F	8	10	6	4	6	4	8	3	3	8	7	5	5	5	45	45	45
	160	F	2	8	6	5	5	3	3	3	3	4	8	7	5	5	43	43	43
	163	F	7	11	5	6	5	6	5	6	5	6	4	4	4	4	46	46	46
	164	F	7	10	4	5	5	4	5	5	6	4	3	3	3	3	36	36	36
	167	F	3	12	5	3	5	3	3	3	3	6	4	3	3	3	36	36	36
	168	F	5	9	5	2	3	2	3	3	3	3	1	0	0	0	35	35	35
	171	F	5	8	2	0	0	0	0	0	0	0	0	0	0	0	1	1	1
	172	F	-1	13	6	5	5	3	3	3	3	5	5	5	5	5	27	27	27
	175	F	3	6	8	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	176	F	2	11	7	6	5	4	3	3	3	3	3	3	3	3	41	41	41
	179	F	3	14	3	5	4	3	3	3	3	5	5	5	5	5	37	37	37
	180	F	1	7	4	0	0	0	0	0	0	0	0	0	0	0	27	27	27

\* Day = Study Day; <sup>b</sup> Gain = Day 1 through Day 25  
 -- = No data; d = Animal dead, euthanized; f = fasted weight

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
 Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Group	Animal (1000 ppm)	Sex	Body Weight Gain (g)												Total Gain <sup>b</sup>	
			Day 4	Day 8	Day 11	Day 15	Day 18	Day 22	Day 25	NK Males	Day 29	Day 30	Day 31	Day 32	Day 35	Day 36
HMDs	191	F	0	5	6	6	1	6	2	-	-	-	-	-	-	26
(1000 ppm)	192	F	6	7	1	5	6	5	2	-	-	-	-	-	-	32
	193	F	0	10	4	3	6	8	0	-	-	-	-	-	-	31
	194	F	-2	8	7	2	5	3	5	-	-	-	-	-	-	28
	195	F	-1	7	5	6	4	5	2	-	-	-	-	-	-	28
	196	F	4	7	8	4	2	4	1	5	-	-	-	-	-	31
	197	F	12	7	1	2	4	1	2	5	1	-	-	-	-	29
	198	F	12	7	4	7	2	5	1	-	-	-	-	-	-	38
	199	F	12	13	7	4	4	3	2	-	-	-	-	-	-	45
	200	F	-13	28	8	6	5	1	4	-	-	-	-	-	-	39
	211	F	18	7	6	3	5	7	1	-	-	-	-	-	-	47
	212	F	15	3	7	4	5	3	1	-	-	-	-	-	-	38
	213	F	3	8	4	5	5	3	1	-	-	-	-	-	-	29
	214	F	4	5	9	3	0	2	4	5	4	-	-	-	-	27
	215	F	-1	6	9	4	4	4	7	2	-	-	-	-	-	31
	216	F	2	5	5	4	4	4	7	0	-	-	-	-	-	29
	217	F	3	4	7	3	6	4	0	-	-	-	-	-	-	27
	218	F	7	3	4	4	2	5	3	0	-	-	-	-	-	19
	219	F	3	9	4	7	5	3	0	-	-	-	-	-	-	31
	220	F	8	4	7	9	6	4	-	-	-	-	-	-	-	38
	223	F	6	2	4	6	4	4	3	-	-	-	-	-	-	29
	224	F	6	2	8	3	1	7	1	-	-	-	-	-	-	28
	227	F	4	7	6	5	3	3	2	-	-	-	-	-	-	30
	228	F	2	6	4	2	3	2	1	-	-	-	-	-	-	20
	231	F	2	5	6	3	5	5	2	-	-	-	-	-	-	28
	232	F	7	3	6	4	9	1	3	-	-	-	-	-	-	33
	235	F	4	7	5	4	5	4	5	-	-	-	-	-	-	28
	236	F	7	9	6	4	4	4	5	2	-	-	-	-	-	37
	239	F	-2	11	5	4	1	5	0	-	-	-	-	-	-	24
	240	F	0	6	3	10	4	4	2	-	-	-	-	-	-	21

\* Day = Study Day; <sup>a</sup> Gain = Day 1 through Day 25  
 \*\* = No data; d = Animal dead, euthanized; f = fasted weight

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Group	Animal	Sex	Body Weight Gain (g)												Total	Gain <sup>b</sup>
			Day 4	Day 8	Day 11	Day 15	Day 18	Day 22	Day 25	NK Males	Day 29	Day 30	Day 31	Day 32	Day 35	Day 36
HMDS (5000 ppm)	251	F	6	11	9	3	5	3	0	5	1	2	5	3	2	39
	252	F	2	9	5	2	5	3	2	4	2	4	2	4	24	
	253	F	5	7	2	5	2	6	-1	4	2	4	2	4	28	
	254	F	0	9	5	2	6	-1	4	2	0	2	0	2	25	
	255	F	5	7	7	3	5	4	2	0	2	0	2	3	33	
	256	F	5	6	6	3	1	2	0	2	0	2	0	2	23	
	257	F	4	6	1	5	2	-1	6	1	6	1	6	1	23	
	258	F	0	7	3	8	3	3	1	1	1	1	1	1	23	
	259	F	1	11	6	6	6	6	2	1	1	1	1	1	23	
	260	F	0	8	0	5	3	2	3	1	1	1	1	1	21	
	271	F	6	9	3	7	4	4	2	1	1	1	1	1	21	
	272	F	6	8	1	5	5	5	2	1	1	1	1	1	21	
	273	F	3	10	2	3	3	3	2	3	1	1	1	1	21	
	274	F	4	7	6	3	3	2	4	2	2	2	2	2	22	
	275	F	4	7	5	7	4	4	2	1	1	1	1	1	22	
	276	F	3	3	3	5	4	4	2	1	1	1	1	1	22	
	277	F	9	4	7	8	2	2	7	1	1	1	1	1	22	
	278	F	2	9	0	5	3	4	2	1	1	1	1	1	22	
	279	F	5	8	5	6	3	5	2	1	1	1	1	1	22	
	280	F	1	6	5	5	4	6	6	6	6	6	6	6	22	
	283	F	1	3	6	2	3	4	3	4	3	4	3	3	22	
	284	F	5	10	3	7	3	4	2	1	1	1	1	1	22	
	287	F	4	9	7	7	3	2	1	1	1	1	1	1	22	
	288	F	4	6	5	5	3	4	2	1	1	1	1	1	22	
	291	F	4	7	0	4	2	1	1	1	1	1	1	1	22	
	292	F	6	7	3	5	3	4	2	1	1	1	1	1	22	
	295	F	3	8	3	1	4	7	2	2	2	2	2	2	28	
	296	F	4	6	4	2	4	4	2	2	2	2	2	2	26	
	299	F	4	6	4	3	4	0	2	2	2	2	2	2	23	
	300	F	4	7	4	2	7	2	2	2	2	2	2	2	29	

<sup>a</sup> Day = Study Day; <sup>b</sup> Gain = Day 1 through Day 25  
 d = No data; d = Animal dead, euthanized; f = fasted weight

**Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
 Whole-Body Inhalation Exposure in Fischer 344 Rats**

**Appendix B - Individual Animal Data**

Group	Animal	Sex	Day <sup>a</sup> 4	Body Weight Gain (g)												Total Gain <sup>b</sup>	
				Day 8	Day 11	Day 15	Day 18	Day 22	Day 25	NK Males	Day 29	Day 30	Day 31	Day 32	Day 35	Day 36	
Intra-assay Control (0 ppm)	311	F	6	11	5	2	-3	6	1	-	-	-	-	-	d	d	28
	312	F	4	14	4	3	0	9	1	-	-	-	-	-	d	d	35
	313	F	1	11	3	9	2	4	4	-	-	-	-	-	d	d	34
	314	F	4	3	6	9	5	4	3	-	-	-	-	-	p	p	34
	315	F	8	11	7	7	1	1	2	-	-	-	-	-	p	p	37
	316	F	3	10	8	6	2	5	1	-	-	-	-	-	p	p	35
	317	F	5	13	4	5	3	6	0	-	-	-	-	-	p	p	36
	318	F	3	8	3	6	1	7	2	-	-	-	-	-	p	p	30
	319	F	0	12	2	2	7	3	0	-	-	-	-	-	p	p	26
	320	F	2	15	6	3	4	4	4	-	-	-	-	-	p	p	38
	331	F	9	9	7	3	5	7	4	-	-	-	-	-	d	d	44
	332	F	5	5	5	8	4	8	.7	-	-	-	-	-	p	p	28
	333	F	8	5	7	5	5	2	6	-	-	-	-	-	p	p	38
	334	F	5	11	4	9	4	6	2	-	-	-	-	-	p	p	41
	335	F	2	7	3	5	2	4	5	-	-	-	-	-	p	p	28
	336	F	8	8	7	3	2	7	2	-	-	-	-	-	p	p	37
	337	F	3	9	2	6	4	-2	7	-	-	-	-	-	p	p	29
	338	F	1	9	7	5	2	6	5	-	-	-	-	-	p	p	35
	339	F	6	4	10	7	3	7	5	-	-	-	-	-	p	p	42
	340	F	6	6	9	7	4	7	1	-	-	-	-	-	p	p	40

\* Day = Study Day; <sup>b</sup> Gain = Day 1 through Day 25  
 -- = No data; d = Animal dead, euthanized; f = fasted weight

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
 Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Group	Animal	Sex	Weekly Feed Consumption (g)																
			Day 15	Day 16	Day 17	Day 18	Day 19	Day 20	Day 21	Day 22	NK Males	Day 29	Day 30	Day 31	Day 32	Day 33	Day 34	Day 35	Day 36
Filtered	1	M	109	121	117									d					
Air Control (0 ppm)	2	M	108	115	115									p					
	3	M	111	116	111									p					
	4	M	109	116	108									p					
	5	M	113	115	107									p					
	6	M	109	112	108									p					
	7	M	98	115	118									p					
	8	M	125	122	116									p					
	9	M	112	125	119									p					
	10	M	100	107	100									p					
	21	M	115	110	112									p					
	22	M	114	110	111									p					
	23	M	112	99	111									p					
	24	M	116	132	115									p					
	25	M	104	107	99									p					
	26	M	109	109	101									p					
	27	M	114	110	107									p					
	28	M	113	113	116									p					
	29	M	110	115	115									p					
	30	M	113	109	107									p					
	41	M	117	125	95									p					
	42	M	110	118	116									p					
	45	M	116	116	116									p					
	46	M	122	111	106									p					
	49	M	115	130	114									p					
	50	M	118	121	116									p					
	53	M	123	114	110									p					
	54	M	114	98	112									p					
	57	M	117	112	120									p					
	58	M	113	115										p					

-- = No data; d = Animal dead, euthanized

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
 Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Group	Animal (50 ppm)	Sex	Weekly Feed Consumption (g)				Day 31	Day 32	Day 33	Day 34	Day 35	Day 36
			Day 8	Day 15	Day 22	NK Males						
HMDS	61	M	107	113	107	-	-	-	-	-	-	-
	62	M	106	109	101	-	-	-	-	-	-	-
	63	M	116	117	104	-	-	-	-	-	-	-
	64	M	118	117	114	-	-	-	-	-	-	-
	65	M	114	113	113	-	-	-	-	-	-	-
	66	M	126	129	119	-	-	-	-	-	-	-
	67	M	116	139	113	-	-	-	-	-	-	-
	68	M	119	120	113	-	-	-	-	-	-	-
	69	M	112	113	108	-	-	-	-	-	-	-
	70	M	123	125	109	-	-	-	-	-	-	-
	81	M	109	102	95	81	86	-	-	-	-	-
	82	M	104	97	91	-	-	-	-	-	-	-
	83	M	120	117	116	98	-	-	-	-	-	-
	84	M	108	100	101	87	-	-	-	-	-	-
	85	M	118	115	114	99	-	-	-	-	-	-
	86	M	111	109	105	89	-	-	-	-	-	-
	87	M	113	107	103	89	-	-	-	-	-	-
	88	M	114	107	105	95	-	-	-	-	-	-
	89	M	115	107	105	92	-	-	-	-	-	-
	90	M	109	115	111	-	-	-	-	-	-	-
	101	M	114	110	119	-	-	-	-	-	-	-
	102	M	123	111	106	-	-	-	-	-	-	-
	105	M	111	101	104	-	-	-	-	-	-	-
	106	M	119	111	107	-	-	-	-	-	-	-
	109	M	117	120	110	-	-	-	-	-	-	-
	110	M	110	116	108	-	-	-	-	-	-	-
	113	M	118	114	113	-	-	-	-	-	-	-
	114	M	113	104	116	-	-	-	-	-	-	-
	117	M	127	131	133	-	-	-	-	-	-	-
	118	M	146	114	112	-	-	-	-	-	-	-

-- = No data; d = Animal dead, euthanized

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
 Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Group	Animal	Sex	Weekly Feed Consumption (g)											
			Day 15	Day 16	Day 17	Day 18	Day 19	Day 20	Day 21	Day 22	Day 23	Day 24	Day 25	Day 26
HMDS (200 ppm)	121	M	108	113	100	-	-	-	-	-	-	-	-	-
	122	M	111	114	113	-	-	-	-	-	-	-	-	-
	123	M	116	115	111	-	-	-	-	-	-	-	-	-
	124	M	110	98	95	-	-	-	-	-	-	-	-	-
	125	M	122	122	114	-	-	-	-	-	-	-	-	-
	126	M	113	114	114	-	-	-	-	-	-	-	-	-
	127	M	107	112	109	-	-	-	-	-	-	-	-	-
	128	M	121	122	120	-	-	-	-	-	-	-	-	-
	129	M	115	110	107	-	-	-	-	-	-	-	-	-
	130	M	111	111	108	-	-	-	-	-	-	-	-	-
	141	M	102	104	98	-	-	-	-	-	-	-	-	-
	142	M	115	111	101	-	-	-	-	-	-	-	-	-
	143	M	100	92	93	-	-	-	-	-	-	-	-	-
	144	M	120	115	108	-	-	-	-	-	-	-	-	-
	145	M	106	103	101	-	-	-	-	-	-	-	-	-
	146	M	108	111	105	-	-	-	-	-	-	-	-	-
	147	M	100	95	89	-	-	-	-	-	-	-	-	-
	148	M	117	117	110	-	-	-	-	-	-	-	-	-
	149	M	112	104	102	-	-	-	-	-	-	-	-	-
	150	M	103	105	106	-	-	-	-	-	-	-	-	-
	161	M	104	104	105	-	-	-	-	-	-	-	-	-
	162	M	132	120	116	-	-	-	-	-	-	-	-	-
	163	M	114	113	102	-	-	-	-	-	-	-	-	-
	166	M	126	120	116	-	-	-	-	-	-	-	-	-
	169	M	108	100	99	-	-	-	-	-	-	-	-	-
	170	M	110	110	104	-	-	-	-	-	-	-	-	-
	173	M	116	107	103	-	-	-	-	-	-	-	-	-
	174	M	121	118	118	-	-	-	-	-	-	-	-	-
	177	M	121	118	115	-	-	-	-	-	-	-	-	-
	178	M	114	108	110	-	-	-	-	-	-	-	-	-

- = No data; d = Animal dead, euthanized

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
 Whole-Body Inhalation Exposure in Fischer 344 Rats

**Appendix B - Individual Animal Data**

<u>Group</u>	<u>Animal</u>	<u>Sex</u>	Weekly Feed Consumption (g)						<u>Day 31</u>	<u>Day 32</u>	<u>Day 33</u>	<u>Day 34</u>	<u>Day 35</u>	<u>Day 36</u>
			<u>Day 8</u>	<u>Day 15</u>	<u>Day 22</u>	<u>NK Males</u>	<u>Day 29</u>	<u>Day 30</u>						
HMDS (1000 ppm)	181	M	115	121	115	-	-	-	d	d	d	d	d	d
	182	M	108	117	115	-	-	-	p	p	p	p	p	p
	183	M	119	118	119	-	-	-	p	p	p	p	p	p
	184	M	116	107	99	-	-	-	p	p	p	p	p	p
	185	M	111	111	110	-	-	-	p	p	p	p	p	p
	186	M	107	104	109	-	-	-	p	p	p	p	p	p
	187	M	110	119	110	-	-	-	p	p	p	p	p	p
	188	M	113	113	111	-	-	-	p	p	p	p	p	p
	189	M	119	112	100	-	-	-	p	p	p	p	p	p
	190	M	117	117	107	-	-	-	p	p	p	p	p	p
	201	M	112	106	102	-	-	-	p	p	p	p	p	p
	202	M	122	109	105	-	-	-	p	p	p	p	p	p
	203	M	108	102	95	-	-	-	p	p	p	p	p	p
	204	M	112	105	101	-	-	-	p	p	p	p	p	p
	205	M	103	97	85	-	-	-	p	p	p	p	p	p
	206	M	114	112	112	-	-	-	p	p	p	p	p	p
	207	M	117	110	110	-	-	-	p	p	p	p	p	p
	208	M	113	109	105	-	-	-	p	p	p	p	p	p
	209	M	113	102	98	-	-	-	p	p	p	p	p	p
	210	M	125	115	117	-	-	-	p	p	p	p	p	p
	221	M	116	105	104	-	-	-	p	p	p	p	p	p
	222	M	112	113	112	-	-	-	p	p	p	p	p	p
	223	M	102	99	102	-	-	-	p	p	p	p	p	p
	226	M	109	113	106	-	-	-	p	p	p	p	p	p
	229	M	108	117	108	-	-	-	p	p	p	p	p	p
	230	M	116	113	101	-	-	-	p	p	p	p	p	p
	233	M	131	118	108	-	-	-	p	p	p	p	p	p
	234	M	131	109	107	-	-	-	p	p	p	p	p	p
	237	M	119	111	107	-	-	-	p	p	p	p	p	p
	238	M	120	118	114	-	-	-	p	p	p	p	p	p

-- = No data; d = Animal dead, euthanized

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
 Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Group	Animal	Sex	Weekly Feed Consumption (g)									
			Day 8	Day 15	Day 22	NK Males	Day 29	Day 30	Day 31	Day 32	Day 35	Day 36
HMDS (5000 ppm)	241	M	109	100	106							
	242	M	115	109	114							
	243	M	111	106	103							
	244	M	118	107	112							
	245	M	113	104	98							
	246	M	106	103	106							
	247	M	110	114	119							
	248	M	98	92	96							
	249	M	113	110	109							
	250	M	107	109	110							
	261	M	105	104	102							
	262	M	102	104	101							
	263	M	106	105	105							
	264	M	110	113	103							
	265	M	114	113	103							
	266	M	103	101	128							
	267	M	119	144	108							
	268	M	117	98	102							
	269	M	116	106	102							
	270	M	116	111	104							
	281	M	99	98	106							
	282	M	109	114	112							
	285	M	116	113	115							
	286	M	100	103	112							
	289	M	112	113	113							
	290	M	105	103	102							
	293	M	118	110	101							
	294	M	127	116	105							
	297	M	119	111	109							
	298	M	111	109	101							
											50	54
											-	-

-- = No data; d = Animal dead, euthanized

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
 Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Group	Animal	Sex	Weekly Feed Consumption (g)																	
			Day 15	Day 16	Day 17	Day 18	Day 19	Day 20	Day 21	Day 22	Day 23	NK Males	Day 29	Day 30	Day 31	Day 32	Day 33	Day 34	Day 35	Day 36
Intra-assay Control (0 ppm)	301	M	113	118	110	113	116	113	110	110	113	116	102	96	-	-	-	-	-	-
	302	M	113	116	105	105	106	102	102	105	105	106	105	102	102	102	102	102	102	102
	303	M	110	115	118	118	116	116	116	117	117	117	108	108	108	108	108	108	108	108
	304	M	115	102	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117
	305	M	115	118	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116
	306	M	102	118	124	124	117	117	117	117	117	117	117	117	117	117	117	117	117	117
	307	M	118	116	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117	117
	308	M	116	110	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109	109
	309	M	110	127	115	115	115	115	115	115	115	115	107	107	107	107	107	107	107	107
	310	M	120	84	121	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102
	321	M	115	53	137	87	87	87	87	87	87	87	87	87	87	87	87	87	87	87
	322	M	97	98	101	82	82	82	82	82	82	82	82	82	82	82	82	82	82	82
	323	M	111	105	106	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90
	324	M	113	111	111	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98
	325	M	121	112	105	89	89	89	89	89	89	89	89	89	89	89	89	89	89	89
	326	M	102	96	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
	327	M	112	111	112	97	97	97	97	97	97	97	97	97	97	97	97	97	97	97
	328	M	102	94	91	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
	329	M	97	100	98	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	330	M	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

-- = No data; d = Animal dead, euthanized

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
 Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Group	Animal	Sex	Weekly Feed Consumption (g)											
			Day 8	Day 15	Day 22	NK Males	Day 29	Day 30	Day 31	Day 32	Day 35	Day 36		
Filtered	11	F	77	87	83	-	-	-	-	-	d	d		
Air Control (0 ppm)	12	F	81	81	69	-	-	-	-	-	d	d		
	13	F	66	67	53	-	-	-	-	-	d	d		
	14	F	89	87	84	-	-	-	-	-	d	d		
	15	F	78	70	61	-	-	-	-	-	d	d		
	16	F	80	78	83	-	-	-	-	-	d	d		
	17	F	75	77	74	-	-	-	-	-	d	d		
	18	F	85	79	74	-	-	-	-	-	d	d		
	19	F	84	84	81	-	-	-	-	-	d	d		
	20	F	76	69	66	-	-	-	-	-	d	d		
	31	F	75	72	76	-	-	-	-	-	d	d		
	32	F	72	72	77	-	-	-	-	-	d	d		
	33	F	66	37	70	-	-	-	-	-	d	d		
	34	F	80	75	74	-	-	-	-	-	d	d		
	35	F	70	71	72	-	-	-	-	-	d	d		
	36	F	83	76	74	-	-	-	-	-	d	d		
	37	F	73	70	68	-	-	-	-	-	d	d		
	38	F	80	74	70	-	-	-	-	-	d	d		
	39	F	82	75	79	-	-	-	-	-	d	d		
	40	F	75	70	75	-	-	-	-	-	d	d		
	43	F	82	117	74	-	-	-	-	-	d	d		
	44	F	84	94	78	-	-	-	-	-	d	d		
	47	F	91	68	70	-	-	-	-	-	d	d		
	48	F	77	74	79	-	-	-	-	-	d	d		
	51	F	76	72	68	-	-	-	-	-	d	d		
	52	F	70	77	74	-	-	-	-	-	d	d		
	55	F	83	90	71	-	-	-	-	-	d	d		
	56	F	83	70	65	-	-	-	-	-	d	d		
	59	F	80	79	69	-	-	-	-	-	d	d		
	60	F	84	83	72	-	-	-	-	-	d	d		

-- = No data; d = Animal dead, euthanized

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
 Whole-Body Inhalation Exposure in Fischer 344 Rats

**Appendix B - Individual Animal Data**

<u>Group</u>	<u>Animal</u>	<u>Sex</u>	Weekly Feed Consumption (g)											
			<u>Day 8</u>	<u>Day 15</u>	<u>Day 22</u>	<u>NK Males</u>	<u>Day 29</u>	<u>Day 30</u>	<u>Day 31</u>	<u>Day 32</u>	<u>Day 35</u>	<u>Day 36</u>	<u>Day 36</u>	<u>Day 36</u>
HMDS (50 ppm)	71	F	72	70	62									
	72	F	78	74	72									
	73	F	81	75	69									
	74	F	79	83	82									
	75	F	83	79	67									
	76	F	80	80	69									
	77	F	87	78	69									
	78	F	77	77	69									
	79	F	73	68	65									
	80	F	78	77	77									
	91	F	95	79	75									
	92	F	63	61	60									
	93	F	72	76	64									
	94	F	78	73	70									
	95	F	88	71	70									
	96	F	82	74	78									
	97	F	79	75	72									
	98	F	85	75	75									
	99	F	82	71	66									
	100	F	63	77	113									
	103	F	74	71	66									
	104	F	81	71	68									
	107	F	79	77	75									
	108	F	83	80	79									
	111	F	81	78	72									
	112	F	75	77	75									
	115	F	93	85	81									
	116	F	84	85	79									
	119	F	89	82	78									
	120	F	87	81	83									

-- = No data;    d = Animal dead, euthanized

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
 Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Group	Animal	Sex	Day 8	Weekly Feed Consumption (g)							Day 31	Day 32	Day 33	Day 34	Day 35	Day 36
				Day 15	Day 22	NK Males	Day 29	Day 30	Day 31	Day 32						
HMDS (200 ppm)	131	F	76	69	70	75	66	76	P	P	P	P	P	P	P	P
	132	F	87	85	77	77	80	75	P	P	P	P	P	P	P	P
	133	F	81	32	76	76	75	75	P	P	P	P	P	P	P	P
	134	F	79	77	71	71	72	72	P	P	P	P	P	P	P	P
	135	F	84	87	83	78	66	66	P	P	P	P	P	P	P	P
	136	F	84	76	76	75	75	75	P	P	P	P	P	P	P	P
	137	F	77	71	71	71	72	72	P	P	P	P	P	P	P	P
	138	F	81	74	83	78	78	78	P	P	P	P	P	P	P	P
	139	F	72	74	71	71	72	72	P	P	P	P	P	P	P	P
	140	F	90	77	81	79	79	79	P	P	P	P	P	P	P	P
	151	F	79	63	72	72	72	72	P	P	P	P	P	P	P	P
	152	F	71	91	78	82	82	82	P	P	P	P	P	P	P	P
	153	F	78	67	72	72	72	72	P	P	P	P	P	P	P	P
	154	F	78	73	67	67	67	67	P	P	P	P	P	P	P	P
	155	F	67	76	73	73	73	73	P	P	P	P	P	P	P	P
	156	F	76	67	67	67	67	67	P	P	P	P	P	P	P	P
	157	F	73	73	73	73	73	73	P	P	P	P	P	P	P	P
	158	F	70	71	71	71	71	71	P	P	P	P	P	P	P	P
	159	F	81	75	75	75	75	75	P	P	P	P	P	P	P	P
	160	F	78	80	80	80	80	80	P	P	P	P	P	P	P	P
	163	F	81	78	78	78	78	78	P	P	P	P	P	P	P	P
	164	F	87	80	78	78	78	78	P	P	P	P	P	P	P	P
	167	F	85	78	78	78	78	78	P	P	P	P	P	P	P	P
	168	F	85	80	80	80	80	80	P	P	P	P	P	P	P	P
	171	F	88	71	71	71	70	70	P	P	P	P	P	P	P	P
	172	F	82	80	80	80	81	81	P	P	P	P	P	P	P	P
	175	F	56	79	79	79	79	79	P	P	P	P	P	P	P	P
	176	F	82	82	82	82	82	82	P	P	P	P	P	P	P	P
	179	F	87	85	85	85	85	85	P	P	P	P	P	P	P	P
	180	F	84	76	76	76	76	76	P	P	P	P	P	P	P	P

... = No data; d = Animal dead, euthanized

**Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous Whole-Body Inhalation Exposure in Fischer 344 Rats**

**Appendix B - Individual Animal Data**

<u>Group</u>	<u>Animal</u>	<u>Sex</u>	<u>Day 8</u>	<u>Day 15</u>	<u>Day 22</u>	<u>NK Males</u>	<u>Day 29</u>	<u>Day 30</u>	<u>Day 31</u>	<u>Day 32</u>	<u>Day 35</u>	<u>Day 36</u>	
HMDS (1000 ppm)	191	F	70	77	59								
	192	F	85	73	74								
	193	F	76	74	77								
	194	F	75	75	84								
	195	F	75	75	77								
	196	F	83	78	70								
	197	F	73	66	65								
	198	F	75	70	63								
	199	F	78	77	75								
	200	F	65	89	75								
	211	F	105	76	76								
	212	F	69	56	55								
	213	F	82	70	75								
	214	F	65	55	55								
	215	F	73	72	77								
	216	F	78	67	72								
	217	F	78	56	59								
	218	F	75	46	45								
	219	F	76	71	78								
	220	F	77	74	74								
	223	F	76	72	76								
	224	F	77	69	73								
	227	F	73	72	66								
	228	F	75	65	67								
	231	F	76	73	75								
	232	F	68	66	80								
	235	F	66	81	78								
	236	F	90	100	80								
	239	F	85	74	78								
	240	F	79	81	65								

-- = No data; d = Animal dead, euthanized

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
 Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Group	Animal	Sex	Weekly Feed Consumption (g)							
			Day 8	Day 15	Day 22	NK Males	Day 29	Day 30	Day 31	Day 32
HMDS (5000 ppm)	251	F	73	63	89					
	252	F	87	74	51					
	253	F	78	66	55					
	254	F	79	73	70					
	255	F	79	75	73					
	256	F	75	72	72					
	257	F	83	77	71					
	258	F	80	74	73					
	259	F	82	75	72					
	260	F	76	62	60					
	271	F	80	80	69					
	272	F	93	70	76					
	273	F	67	57	64					
	274	F	82	73	69					
	275	F	80	74	75					
	276	F	77	69	65					
	277	F	83	75	78					
	278	F	73	64	65					
	279	F	81	77	76					
	280	F	75	71	74					
	283	F	66	59	59					
	284	F	78	72	82					
	287	F	82	89	80					
	288	F	67	76	71					
	291	F	77	68	66					
	292	F	92	78	76					
	295	F	89	76	74					
	296	F	79	69	71					
	299	F	80	70	77					
	300	F	82	62						

-- = No date; d = Animal dead, euthanized

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Group	Animal	Sex	Weekly Feed Consumption (g)							
			Day 8	Day 15	Day 22	NK Males	Day 29	Day 30	Day 31	Day 32
Intra-assay Control (0 ppm)	311	F	90	92	77	77				d
	312	F	82	69	77	77				d
	313	F	86	84	77	75				d
	314	F	78	78	75	75				d
	315	F	88	84	82	82				d
	316	F	75	75	76	76				d
	317	F	86	80	81	81				d
	318	F	105	76	72	72				d
	319	F	83	83	81	81				d
	320	F	76	72	72	72				d
	331	F	107	81	83	83				d
	332	F	86	79	71	71				d
	333	F	73	73	79	79				d
	334	F	85	78	79	79				d
	335	F	72	69	67	67				d
	336	F	80	75	72	72				d
	337	F	80	73	71	71				d
	338	F	75	72	75	75				d
	339	F	81	76	82	82				d
	340	F			77					d

-- = No data; d = Animal dead, euthanized

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Necropsy Observations

<u>Group</u>	<u>Animal</u>	<u>Sex</u>	<u>Observation</u>
Filtered Air Control (0 ppm)	21	M	No gross lesions
	22	M	No gross lesions
	23	M	No gross lesions
	24	M	No gross lesions
	25	M	No gross lesions
	26	M	No gross lesions
	27	M	No gross lesions
	28	M	No gross lesions
	29	M	No gross lesions
	30	M	No gross lesions
HMDS (50 ppm)	81	M	No gross lesions
	82	M	No gross lesions
	83	M	No gross lesions
	84	M	No gross lesions
	85	M	Kidney: bilateral - pigmentation, mottled
	86	M	Kidney: bilateral - pigmentation, mottled
	87	M	No gross lesions
	88	M	No gross lesions
	89	M	No gross lesions
	90	M	No gross lesions
HMDS (200 ppm)	141	M	No gross lesions
	142	M	No gross lesions
	143	M	No gross lesions
	144	M	No gross lesions
	145	M	No gross lesions
	146	M	No gross lesions
	147	M	No gross lesions
	148	M	No gross lesions
	149	M	No gross lesions
	150	M	No gross lesions

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Necropsy Observations

<u>Group</u>	<u>Animal</u>	<u>Sex</u>	<u>Observation</u>
HMDS (1000 ppm)	201	M	No gross lesions
	202	M	No gross lesions
	203	M	No gross lesions
	204	M	Kidney: bilateral - pigmentation, mottled
	205	M	No gross lesions
	206	M	No gross lesions
	207	M	No gross lesions
	208	M	No gross lesions
	209	M	No gross lesions
	210	M	No gross lesions
HMDS (5000 ppm)	261	M	No gross lesions
	262	M	Kidney: bilateral - pigmentation, mottled
	263	M	Kidney: bilateral - pigmentation, mottled Thymus: pigmentation, mottled
	264	M	No gross lesions
	265	M	No gross lesions
	266	M	Kidney: bilateral - pigmentation, mottled
	267	M	No gross lesions
	268	M	No gross lesions
	269	M	No gross lesions
	270	M	No gross lesions
Intra-assay Control (0 ppm)	321	M	Thymus: bilateral - pigmentation, mottled
	322	M	No gross lesions
	323	M	No gross lesions
	324	M	No gross lesions
	325	M	No gross lesions
	326	M	No gross lesions
	327	M	No gross lesions
	328	M	No gross lesions
	329	M	No gross lesions
	330	M	No gross lesions

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Necropsy Observations

<u>Group</u>	<u>Animal</u>	<u>Sex</u>	<u>Observation</u>
Filtered	31	F	No gross lesions
Air Control (0 ppm)	32	F	No gross lesions
	33	F	No gross lesions
	34	F	No gross lesions
	35	F	No gross lesions
	36	F	No gross lesions
	37	F	No gross lesions
	38	F	No gross lesions
	39	F	No gross lesions
	40	F	No gross lesions
HMDS (50 ppm)	91	F	No gross lesions
	92	F	No gross lesions
	93	F	No gross lesions
	94	F	No gross lesions
	95	F	No gross lesions
	96	F	No gross lesions
	97	F	Liver: median lobe - nodule, 4x4x3 mm
	98	F	No gross lesions
	99	F	No gross lesions
	100	F	No gross lesions
HMDS (200 ppm)	151	F	Ovary: left - pigmentation, red
	152	F	No gross lesions
	153	F	No gross lesions
	154	F	No gross lesions
	155	F	No gross lesions
	156	F	No gross lesions
	157	F	No gross lesions
	158	F	No gross lesions
	159	F	No gross lesions
	160	F	No gross lesions

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Necropsy Observations

<u>Group</u>	<u>Animal</u>	<u>Sex</u>	<u>Observation</u>
HMDS (1000 ppm)	211	F	No gross lesions
	212	F	No gross lesions
	213	F	No gross lesions
	214	F	No gross lesions
	215	F	No gross lesions
	216	F	No gross lesions
	217	F	No gross lesions
	218	F	No gross lesions
	219	F	No gross lesions
	220	F	Liver: median lobe - mass, 10x5x4 mm
HMDS (5000 ppm)	271	F	No gross lesions
	272	F	No gross lesions
	273	F	No gross lesions
	274	F	No gross lesions
	275	F	No gross lesions
	276	F	No gross lesions
	277	F	No gross lesions
	278	F	No gross lesions
	279	F	Liver: median lobe - mass, 6x7x7 mm Liver: median lobe - mass, 6x3x3 mm
	280	F	No gross lesions
Intra-assay Control (0 ppm)	331	F	No gross lesions
	332	F	No gross lesions
	333	F	No gross lesions
	334	F	No gross lesions
	335	F	No gross lesions
	336	F	No gross lesions
	337	F	No gross lesions
	338	F	No gross lesions
	339	F	No gross lesions
	340	F	No gross lesions

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

<u>Group</u>	<u>Animal</u>	<u>Sex</u>	<u>Adrenals</u>	<u>Brain</u>	<u>Heart</u>	<u>Kidneys</u>	<u>Liver</u>	<u>Lungs</u>	<u>Spleen</u>	<u>Stomach</u>	<u>Testes</u>	<u>Thymus</u>
Filtered	21	M	0.044	1.851	0.848	1.757	7.306	0.929	0.424	1.395	2.881	0.265
Air Control (0 ppm)	22	M	0.047	1.842	0.853	1.695	7.138	1.109	0.429	1.315	2.882	0.321
	23	M	0.047	1.899	0.867	1.631	7.076	1.046	0.422	1.198	2.843	0.296
	24	M	0.066	1.889	1.008	1.960	—	1.215	0.464	1.256	2.800	0.287
	25	M	0.043	1.817	0.722	1.584	6.891	1.024	0.386	1.255	2.715	0.303
	26	M	0.052	1.852	0.833	1.801	6.962	1.075	0.417	1.150	2.767	0.259
	27	M	0.050	—	0.928	1.712	7.446	1.078	0.446	1.169	2.987	0.324
	28	M	0.065	1.856	0.871	1.693	7.615	1.272	0.448	1.355	2.826	0.323
	29	M	0.073	1.944	2.934	1.798	7.694	1.233	0.491	1.185	2.898	0.331
	30	M	0.061	1.864	0.773	1.716	7.716	1.054	0.456	1.062	2.679	0.296
HMDs (50 ppm)	81	M	0.049	1.897	0.842	1.566	8.972	1.149	0.415	1.044	2.714	0.306
	82	M	0.044	1.760	0.764	1.561	6.948	1.183	0.398	1.146	2.663	0.285
	83	M	0.040	1.812	0.810	1.770	7.983	1.092	0.461	1.430	2.921	0.311
	84	M	0.045	1.842	0.831	1.726	7.755	1.118	0.415	1.149	2.865	0.248
	85	M	0.047	1.662	0.847	1.784	7.592	1.019	0.461	1.114	2.858	0.278
	86	M	0.048	1.794	0.781	1.781	8.274	1.013	0.389	1.043	2.732	0.267
	87	M	0.055	1.836	0.812	1.789	7.309	1.157	0.436	1.269	2.730	0.291
	88	M	0.056	1.856	0.882	1.666	7.155	1.197	0.450	1.065	2.926	0.287
	89	M	0.054	1.828	0.832	1.775	7.726	1.207	0.465	1.186	2.783	0.297
	90	M	0.048	1.803	0.848	1.739	8.292	1.315	0.466	1.242	2.639	0.311
HMDs (200 ppm)	141	M	0.045	1.800	0.805	1.635	8.527	0.967	0.389	1.113	2.667	0.259
	142	M	0.064	1.789	0.854	1.824	7.222	1.135	0.459	1.187	2.740	0.299
	143	M	0.040	1.897	0.690	1.585	6.988	0.928	0.378	1.217	2.475	0.221
	144	M	0.050	1.848	0.916	1.905	9.391	1.123	0.461	1.278	2.882	0.293
	145	M	0.059	1.868	0.877	1.636	7.255	1.077	0.405	1.305	2.487	0.296
	146	M	0.049	1.799	0.827	1.684	7.196	1.053	0.433	1.369	2.618	0.283
	147	M	0.057	1.869	0.773	1.470	6.184	1.076	0.422	1.053	2.799	0.293
	148	M	0.048	1.881	0.837	1.726	7.005	1.004	0.443	1.162	2.839	0.304
	149	M	0.044	1.806	—	1.674	6.634	1.048	0.421	2.250	2.796	0.303
	150	M	0.078	1.881	0.758	1.759	8.101	1.133	0.435	1.342	2.663	0.284

-- = Data omitted, erroneous weight

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
 Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Group	Animal	Sex	Adrenals	Brain	Organ Weight (g)						
					Heart	Kidneys	Liver	Lungs	Spleen	Stomach	Testes
HMDS (1000 ppm)	201	M	0.054	1.888	0.825	1.737	7.327	1.287	0.438	1.252	2.902
	202	M	0.055	1.823	0.856	1.873	8.194	1.125	0.443	1.150	2.787
	203	M	0.055	1.843	0.726	1.697	7.479	1.182	0.420	1.141	2.678
	204	M	0.055	1.836	0.785	1.863	9.096	1.108	0.456	1.246	2.875
	205	M	0.046	1.877	0.707	1.619	7.244	1.013	0.409	1.230	2.697
	206	M	0.051	1.861	0.862	1.813	8.261	1.003	0.443	1.282	2.856
	207	M	0.051	1.854	0.920	1.886	9.014	1.398	0.498	1.415	2.873
	208	M	0.059	1.761	0.859	1.779	7.398	1.282	0.482	1.233	2.814
	209	M	0.062	1.803	0.712	1.742	7.557	1.282	0.479	1.123	2.721
	210	M	0.061	1.855	0.880	1.965	9.040	1.170	0.497	1.434	2.868
HMDS (5000 ppm)	261	M	0.068	1.932	0.787	2.074	—	1.565	0.584	—	2.809
	262	M	0.048	1.785	0.731	1.976	7.845	1.182	0.441	1.088	2.668
	263	M	0.045	1.772	0.758	1.882	7.478	1.063	0.473	1.182	2.700
	264	M	0.051	1.871	0.810	2.164	9.579	1.135	0.515	1.331	2.907
	265	M	0.061	1.812	0.740	1.805	7.446	1.468	0.441	1.232	2.946
	266	M	0.055	1.888	0.859	2.084	8.714	1.109	0.462	1.276	2.769
	267	M	0.042	1.857	0.821	1.890	9.983	1.241	0.535	1.347	2.807
	268	M	0.070	1.810	0.808	1.934	8.257	1.107	0.498	1.291	2.736
	269	M	0.062	1.843	0.867	2.073	9.318	1.051	0.484	1.317	2.951
	270	M	0.054	1.785	0.807	2.007	8.636	1.224	0.429	1.176	2.674
Intra-assay Control (0 ppm)	321	M	0.066	1.872	0.882	1.834	8.457	1.138	0.415	1.189	2.775
	322	M	0.055	1.781	0.843	1.878	8.297	1.151	0.387	1.342	2.718
	323	M	0.051	1.886	0.825	1.651	7.608	1.154	0.422	1.239	2.582
	324	M	0.060	—	0.799	1.800	7.929	1.057	0.437	1.174	2.685
	325	M	0.059	1.843	—	1.752	8.723	1.319	0.465	1.491	2.696
	326	M	0.054	1.799	0.770	1.827	7.324	0.992	0.385	1.112	2.843
	327	M	0.051	1.807	0.817	1.627	7.127	1.170	0.455	1.192	2.784
	328	M	0.052	1.888	0.932	1.782	7.137	1.145	0.452	1.149	2.965
	329	M	0.045	1.780	0.688	1.551	6.266	1.052	0.377	1.119	2.509
	330	M	0.053	1.848	0.836	1.674	7.635	1.216	0.456	0.989	2.737

-- = Data omitted, erroneous weight

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

<u>Group</u>	<u>Animal</u>	<u>Sex</u>	<u>Adrenals</u>	<u>Brain</u>	<u>Heart</u>	<u>Kidneys</u>	<u>Liver</u>	<u>Lungs</u>	<u>Ovaries</u>	<u>Spleen</u>	<u>Stomach</u>	<u>Thymus</u>
Filtered Air Control (0 ppm)	31	F	0.047	1.693	0.551	1.114	4.424	1.090	0.058	0.304	0.841	0.256
	32	F	0.067	1.722	0.576	1.148	5.034	0.865	0.096	0.320	0.796	0.251
	33	F	0.057	1.693	0.568	1.103	4.903	0.859	0.066	0.341	0.845	0.262
	34	F	0.049	1.677	0.548	1.061	5.052	0.746	0.079	0.316	0.987	0.243
	35	F	0.046	1.704	0.566	1.097	4.336	0.969	0.063	0.341	1.352	0.272
	36	F	0.060	1.697	0.582	1.103	4.934	0.835	0.075	0.337	0.951	0.272
	37	F	0.056	1.703	0.586	1.105	4.479	0.906	0.103	0.299	1.218	0.235
	38	F	0.059	1.718	0.590	1.082	4.452	0.851	0.067	0.334	0.808	0.260
	39	F	0.042	1.746	0.557	1.038	5.226	0.789	0.065	0.355	0.936	0.269
	40	F	0.060	1.747	0.617	1.167	5.454	0.902	0.090	0.376	0.926	0.252
HMDs (50 ppm)	91	F	0.060	1.759	0.668	1.202	5.292	1.076	0.111	0.366	1.378	0.356
	92	F	0.053	1.659	0.546	0.960	4.657	0.847	0.088	0.323	0.752	0.240
	93	F	0.047	1.707	0.580	1.025	4.537	0.761	0.053	0.296	1.109	0.243
	94	F	0.054	1.743	0.563	1.098	4.695	0.795	0.095	0.310	0.843	0.225
	95	F	0.055	1.715	0.603	1.123	5.372	0.856	0.069	0.324	0.877	0.263
	96	F	0.063	1.712	0.634	1.138	5.234	1.027	0.097	0.379	0.917	0.276
	97	F	0.041	1.714	0.602	1.146	4.742	0.799	0.062	0.317	1.011	0.251
	98	F	0.044	1.627	0.567	1.093	5.012	0.823	0.063	0.355	0.854	0.290
	99	F	0.055	1.740	0.562	1.140	4.660	0.825	0.059	0.325	1.656	0.239
	100	F	0.050	1.738	0.664	1.215	5.908	1.152	0.071	0.393	0.939	0.269
HMDs (200 ppm)	151	F	0.048	1.713	0.601	1.106	5.613	0.956	0.086	0.313	0.927	0.298
	152	F	0.057	1.752	0.639	1.209	5.698	0.879	0.104	0.351	0.897	0.278
	153	F	0.049	1.494	0.598	1.142	4.744	0.823	0.077	0.403	1.265	0.277
	154	F	0.054	1.753	0.601	1.190	5.315	0.792	0.095	0.356	1.162	0.263
	155	F	0.052	1.687	0.624	1.194	5.608	0.958	0.094	0.332	1.011	0.234
	156	F	0.048	1.760	0.638	1.138	5.501	0.913	0.075	0.362	0.982	0.308
	157	F	0.056	1.681	0.549	1.151	4.848	0.773	0.083	0.312	1.001	0.232
	158	F	0.061	1.635	0.601	1.039	4.239	0.832	0.091	0.289	0.878	0.227
	159	F	0.049	1.741	0.622	1.230	5.408	0.941	0.121	0.350	0.975	0.332
	160	F	0.062	1.699	0.614	1.251	5.637	0.942	0.097	0.374	1.454	0.247

-- = Data omitted, erroneous weight

Immunotoxicity Assessment of Hexamethylidisiloxane (HMDS) Following a 28-Day Continuous  
 Whole-Body Inhalation Exposure in Fischer 344 Rats

**Appendix B - Individual Animal Data**

Group	Animal	Sex	Adrenals	Organ Weight (g)						
				Heart	Kidneys	Liver	Lungs	Ovaries	Spleen	Stomach
HMDS (1000 ppm)	211	F	0.044	1.712	0.600	1.070	4.789	0.995	0.077	0.361
	212	F	0.059	1.658	0.610	1.176	5.239	0.842	0.089	0.351
	213	F	0.050	1.729	0.624	1.161	5.569	0.962	0.091	0.308
	214	F	0.042	-	0.584	1.081	4.796	0.914	0.067	0.344
	215	F	0.051	1.683	0.566	1.152	5.395	0.867	0.072	0.329
	216	F	0.055	1.695	0.594	1.110	4.630	1.103	0.092	0.344
	217	F	0.056	1.705	0.611	1.200	5.136	1.071	0.075	0.381
	218	F	0.051	1.735	0.576	1.135	4.600	0.785	0.098	0.350
	219	F	0.054	1.727	0.604	1.125	5.524	0.851	0.070	0.366
	220	F	0.054	1.742	0.654	1.245	5.564	1.033	0.065	0.386
HMDS (5000 ppm)	271	F	0.054	1.684	0.591	1.181	5.288	1.322	0.086	0.366
	272	F	0.057	1.720	0.640	1.219	5.806	0.966	0.075	0.358
	273	F	0.054	1.727	0.600	1.140	4.974	0.913	0.094	0.334
	274	F	0.046	1.680	0.572	1.046	5.238	0.906	0.092	0.315
	275	F	0.058	1.687	0.579	1.206	5.523	0.880	0.116	0.368
	276	F	0.050	1.700	0.574	1.063	5.399	0.770	0.070	0.334
	277	F	0.054	1.754	0.583	1.195	6.132	0.944	0.094	0.371
	278	F	0.051	1.677	0.551	1.085	5.259	0.748	-	0.322
	279	F	0.062	1.724	0.577	1.139	5.476	0.819	0.092	0.362
	280	F	0.055	1.714	0.593	1.186	5.448	1.234	0.096	0.336
Intra-assay Control (0 ppm)	331	F	0.053	1.702	0.591	1.198	4.807	0.860	0.058	0.386
	332	F	0.058	1.702	0.591	1.136	5.344	0.919	0.102	0.328
	333	F	0.054	1.699	0.571	1.183	5.785	0.888	0.067	0.328
	334	F	0.064	1.677	0.623	1.123	5.484	0.793	0.087	0.322
	335	F	0.049	1.666	0.544	1.067	3.928	0.740	0.079	0.309
	336	F	0.054	1.728	0.600	1.131	5.361	0.909	0.106	0.346
	337	F	0.052	1.768	0.567	1.040	5.070	0.816	0.094	0.311
	338	F	0.056	1.733	0.573	1.209	5.832	0.848	0.095	0.385
	339	F	0.060	1.749	0.652	1.209	5.467	1.059	0.124	0.384
	340	F	0.052	1.769	0.599	1.203	5.379	1.037	0.095	0.390

-- = Data omitted, erroneous weight

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Group	Animal	Sex	Fasted Body Weight (g)	Adrenals	Brain	Heart	Kidneys	Liver	Lungs	Spleen	Stomach	Testes	Thymus	Relative Organ Weight (%)	
Filtered Air Control (0 ppm)	21	M	220	0.02	0.84	0.39	0.80	3.32	0.42	0.19	0.63	1.31	0.12	0.15	0.15
	22	M	220	0.02	0.84	0.39	0.77	3.24	0.50	0.20	0.60	1.31	0.15	0.14	0.14
	23	M	206	0.02	0.92	0.42	0.79	3.43	0.51	0.20	0.58	1.38	0.12	0.12	0.12
	24	M	235	0.03	0.80	0.43	0.83	—	0.52	0.20	0.53	1.19	0.12	0.12	0.12
	25	M	196	0.02	0.93	0.37	0.81	3.52	0.52	0.20	0.64	1.39	0.15	0.15	0.15
	26	M	205	0.03	0.90	0.41	0.88	3.40	0.52	0.20	0.56	1.35	0.13	0.13	0.13
	27	M	213	0.02	—	0.44	0.80	3.50	0.51	0.21	0.55	1.40	0.15	0.15	0.15
	28	M	226	0.03	0.82	0.39	0.75	3.37	0.56	0.20	0.60	1.25	0.14	0.14	0.14
	29	M	228	0.03	0.85	1.29	0.79	3.37	0.54	0.22	0.52	1.27	0.15	0.15	0.15
	30	M	211	0.03	0.88	0.37	0.81	3.66	0.50	0.22	0.50	1.27	0.14	0.14	0.14
HMDS (50 ppm)	81	M	199	0.02	0.95	0.42	0.79	4.51	0.58	0.21	0.52	1.36	0.15	0.15	0.15
	82	M	200	0.02	0.88	0.38	0.78	3.47	0.59	0.20	0.57	1.33	0.14	0.14	0.14
	83	M	226	0.02	0.80	0.36	0.78	3.53	0.48	0.20	0.63	1.29	0.14	0.14	0.14
	84	M	208	0.02	0.89	0.40	0.83	3.73	0.54	0.20	0.55	1.38	0.12	0.12	0.12
	85	M	229	0.02	0.73	0.37	0.78	3.32	0.44	0.20	0.49	1.25	0.12	0.12	0.12
	86	M	215	0.02	0.83	0.36	0.83	3.85	0.47	0.18	0.49	1.27	0.12	0.12	0.12
	87	M	213	0.03	0.86	0.38	0.84	3.43	0.54	0.20	0.60	1.28	0.14	0.14	0.14
	88	M	219	0.03	0.85	0.40	0.76	3.27	0.55	0.21	0.49	1.34	0.13	0.13	0.13
	89	M	220	0.02	0.83	0.38	0.81	3.51	0.55	0.21	0.54	1.27	0.14	0.14	0.14
	90	M	223	0.02	0.81	0.38	0.78	3.72	0.59	0.21	0.56	1.18	0.14	0.14	0.14
HMDS (200 ppm)	141	M	205	0.02	0.88	0.39	0.80	4.16	0.47	0.19	0.54	1.30	0.13	0.13	0.13
	142	M	211	0.03	0.85	0.40	0.86	3.42	0.54	0.22	0.56	1.30	0.14	0.14	0.14
	143	M	190	0.02	1.00	0.36	0.83	3.68	0.49	0.20	0.64	1.30	0.12	0.12	0.12
	144	M	217	0.02	0.85	0.42	0.88	4.33	0.52	0.21	0.59	1.33	0.14	0.14	0.14
	145	M	193	0.03	0.97	0.45	0.85	3.76	0.56	0.21	0.68	1.29	0.15	0.15	0.15
	146	M	209	0.02	0.86	0.40	0.81	3.44	0.50	0.21	0.66	1.25	0.14	0.14	0.14
	147	M	185	0.03	1.01	0.42	0.79	3.34	0.58	0.23	0.57	1.51	0.16	0.16	0.16
	148	M	220	0.02	0.86	0.38	0.78	3.18	0.46	0.20	0.53	1.29	0.14	0.14	0.14
	149	M	207	0.02	0.87	—	0.81	3.20	0.51	0.20	0.69	1.35	0.15	0.15	0.15
	150	M	211	0.04	0.89	0.36	0.83	3.84	0.54	0.21	0.64	1.26	0.13	0.13	0.13

... = Data omitted, erroneous weight

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Group	Animal	Sex	Relative Organ Weight (%)						Thymus	Testes	
			Fasted Body Weight (g)	Adrenals	Brain	Heart	Kidneys	Liver	Lungs	Spleen	Stomach
HMDS (1000 ppm)	201	M	220	0.02	0.86	0.38	0.79	3.33	0.59	0.20	0.57
	202	M	225	0.02	0.81	0.38	0.83	3.64	0.50	0.20	0.51
	203	M	200	0.03	0.92	0.36	0.85	3.74	0.59	0.21	0.57
	204	M	221	0.02	0.83	0.36	0.84	4.12	0.50	0.21	0.56
	205	M	194	0.02	0.97	0.36	0.83	3.73	0.52	0.21	0.63
	206	M	221	0.02	0.84	0.39	0.82	3.74	0.45	0.20	0.58
	207	M	222	0.02	0.84	0.41	0.85	4.06	0.63	0.22	0.64
	208	M	222	0.03	0.79	0.39	0.80	3.33	0.58	0.22	0.56
	209	M	212	0.03	0.85	0.34	0.82	3.56	0.60	0.23	0.53
	210	M	234	0.03	0.79	0.38	0.84	3.86	0.50	0.21	0.61
HMDS (5000 ppm)	261	M	238	0.03	0.81	0.33	0.87	—	0.66	0.25	—
	262	M	207	0.02	0.86	0.35	0.95	3.79	0.57	0.21	0.53
	263	M	207	0.02	0.86	0.37	0.91	3.61	0.51	0.23	0.57
	264	M	216	0.02	0.87	0.38	1.00	4.43	0.53	0.24	0.62
	265	M	207	0.03	0.88	0.36	0.87	3.60	0.71	0.21	0.60
	266	M	216	0.03	0.87	0.40	0.96	4.03	0.51	0.21	0.59
	267	M	226	0.02	0.82	0.36	0.84	4.42	0.55	0.24	0.60
	268	M	219	0.03	0.83	0.37	0.88	3.77	0.51	0.23	0.59
	269	M	220	0.03	0.84	0.39	0.94	4.24	0.48	0.22	0.60
	270	M	215	0.03	0.83	0.38	0.93	4.02	0.57	0.20	0.55
Intra-assay Control (0 ppm)	321	M	228	0.03	0.82	0.39	0.81	3.71	0.50	0.18	0.52
	322	M	211	0.03	0.84	0.40	0.89	3.93	0.55	0.18	0.64
	323	M	204	0.03	0.92	0.40	0.81	3.73	0.57	0.21	0.61
	324	M	208	0.03	—	0.38	0.87	3.81	0.51	0.21	0.56
	325	M	224	0.03	0.82	—	0.78	3.89	0.59	0.21	0.67
	326	M	212	0.03	0.85	0.36	0.86	3.45	0.47	0.18	0.52
	327	M	203	0.03	0.89	0.40	0.80	3.51	0.58	0.22	0.59
	328	M	227	0.02	0.83	0.41	0.79	3.14	0.50	0.20	0.51
	329	M	186	0.02	0.96	0.37	0.83	3.37	0.57	0.20	0.60
	330	M	198	0.03	0.93	0.42	0.85	3.86	0.61	0.23	0.50

-- = Data omitted, erroneous weight

**Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous Whole-Body Inhalation Exposure in Fischer 344 Rats**

**Appendix B - Individual Animal Data**

Group	Animal	Sex	Fasted Weight (g)	Adrenals	Relative Organ Weight (%)						
					Brain	Heart	Kidneys	Liver	Lungs	Ovaries	Spleen
Filtered Air Control (0 ppm)	31	F	141	0.03	1.20	0.39	0.79	3.14	0.77	0.04	0.22
	32	F	145	0.05	1.19	0.40	0.79	3.47	0.60	0.07	0.22
	33	F	140	0.04	1.21	0.41	0.79	3.50	0.61	0.05	0.24
	34	F	141	0.03	1.19	0.39	0.75	3.58	0.53	0.06	0.22
	35	F	141	0.03	1.21	0.40	0.78	3.08	0.69	0.04	0.24
	36	F	142	0.04	1.20	0.41	0.78	3.47	0.59	0.05	0.24
	37	F	140	0.04	1.22	0.42	0.79	3.20	0.65	0.07	0.21
	38	F	141	0.04	1.22	0.42	0.77	3.16	0.60	0.05	0.24
	39	F	147	0.03	1.19	0.38	0.71	3.56	0.54	0.04	0.24
	40	F	150	0.04	1.16	0.41	0.78	3.64	0.60	0.06	0.25
HMDS (50 ppm)	91	F	152	0.04	1.16	0.44	0.79	3.48	0.71	0.07	0.24
	92	F	127	0.04	1.31	0.43	0.76	3.67	0.67	0.07	0.25
	93	F	138	0.03	1.24	0.42	0.74	3.29	0.55	0.04	0.21
	94	F	139	0.04	1.25	0.41	0.79	3.38	0.57	0.07	0.22
	95	F	144	0.04	1.19	0.42	0.78	3.73	0.59	0.05	0.23
	96	F	152	0.04	1.13	0.42	0.75	3.44	0.68	0.06	0.25
	97	F	145	0.03	1.18	0.42	0.79	3.27	0.55	0.04	0.22
	98	F	144	0.03	1.13	0.39	0.76	3.48	0.57	0.04	0.25
	99	F	142	0.04	1.23	0.40	0.80	3.28	0.58	0.04	0.23
	100	F	153	0.03	1.14	0.43	0.79	3.86	0.75	0.05	0.26
HMDS (200 ppm)	151	F	146	0.03	1.17	0.41	0.76	3.84	0.65	0.06	0.21
	152	F	149	0.04	1.18	0.43	0.81	3.82	0.59	0.07	0.24
	153	F	144	0.03	1.04	0.42	0.79	3.29	0.57	0.05	0.28
	154	F	147	0.04	1.19	0.41	0.81	3.62	0.54	0.06	0.24
	155	F	148	0.04	1.14	0.42	0.81	3.79	0.65	0.06	0.22
	156	F	155	0.03	1.14	0.41	0.73	3.55	0.59	0.05	0.23
	157	F	142	0.04	1.18	0.39	0.81	3.41	0.54	0.06	0.22
	158	F	130	0.05	1.26	0.46	0.80	3.26	0.64	0.07	0.22
	159	F	152	0.03	1.15	0.41	0.81	3.56	0.62	0.08	0.23
	160	F	153	0.04	1.11	0.40	0.82	3.68	0.62	0.06	0.24

-- = Data omitted, erroneous weight

**Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous Whole-Body Inhalation Exposure in Fischer 344 Rats**

**Appendix B - Individual Animal Data**

Group	Animal	Sex	Fasted Weight (g)	Adrenals	Relative Organ Weight (%)							
					Brain	Heart	Kidneys	Liver	Lungs	Ovaries	Spleen	Stomach
HMDS (1000 ppm)	211	F	144	0.03	1.19	0.42	0.74	3.33	0.69	0.05	0.25	0.60
	212	F	139	0.04	1.19	0.44	0.85	3.77	0.61	0.06	0.25	0.64
	213	F	143	0.03	1.21	0.44	0.81	3.89	0.67	0.06	0.22	0.73
	214	F	138	0.03	-	0.42	0.78	3.48	0.66	0.05	0.25	0.84
	215	F	142	0.04	1.19	0.40	0.81	3.80	0.61	0.05	0.23	0.86
	216	F	142	0.04	1.19	0.42	0.78	3.26	0.78	0.06	0.24	0.92
	217	F	142	0.04	1.20	0.43	0.85	3.62	0.75	0.05	0.27	0.73
	218	F	142	0.04	1.22	0.41	0.80	3.24	0.55	0.07	0.25	0.68
	219	F	144	0.04	1.20	0.42	0.78	3.84	0.59	0.05	0.25	0.71
	220	F	152	0.04	1.15	0.43	0.82	3.66	0.68	0.04	0.25	0.63
HMDS (500 ppm)	271	F	145	0.04	1.16	0.41	0.81	3.65	0.91	0.06	0.25	0.95
	272	F	147	0.04	1.17	0.44	0.83	3.95	0.66	0.05	0.24	0.82
	273	F	136	0.04	1.27	0.44	0.84	3.66	0.67	0.07	0.25	0.91
	274	F	136	0.03	1.24	0.42	0.77	3.85	0.67	0.07	0.23	0.93
	275	F	145	0.04	1.16	0.40	0.83	3.81	0.61	0.08	0.25	0.79
	276	F	134	0.04	1.27	0.43	0.79	4.03	0.57	0.05	0.25	0.79
	277	F	150	0.04	1.17	0.39	0.80	4.09	0.63	0.06	0.25	0.63
	278	F	138	0.04	1.22	0.40	0.79	3.81	0.54	-	0.23	0.68
	279	F	145	0.04	1.19	0.40	0.79	3.78	0.56	0.06	0.25	0.61
	280	F	142	0.04	1.21	0.42	0.84	3.84	0.87	0.07	0.24	0.69
Intra-assay Control (0 ppm)	331	F	154	0.03	1.11	0.38	0.78	3.12	0.56	0.04	0.25	0.55
	332	F	144	0.04	1.18	0.41	0.79	3.71	0.64	0.07	0.23	0.66
	333	F	147	0.04	1.16	0.39	0.80	3.94	0.60	0.05	0.22	0.62
	334	F	151	0.04	1.11	0.41	0.74	3.63	0.53	0.06	0.21	0.85
	335	F	136	0.04	1.23	0.40	0.78	2.89	0.54	0.06	0.23	1.08
	336	F	144	0.04	1.20	0.42	0.79	3.72	0.63	0.07	0.24	0.64
	337	F	143	0.04	1.24	0.40	0.73	3.55	0.57	0.07	0.22	0.64
	338	F	151	0.04	1.15	0.38	0.80	3.86	0.56	0.06	0.25	0.81
	339	F	153	0.04	1.14	0.43	0.79	3.57	0.69	0.08	0.25	0.58
	340	F	147	0.04	1.20	0.41	0.82	3.66	0.71	0.06	0.27	0.65

-- = Data omitted, erroneous weight

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
 Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Group	Animal Number	Hematology										MCHC %
		RBC mill/cmm	WBC thous/cmm	PLT thous/cmm	RETPC %	RETABS thous/cmm	NRBC #/100	HGB g/dL	MCV fl	MCH pg		
Filtered Air Control (0 ppm)	21 M	9.41	10.9	716	2.3	216.4	0.0	17.4	51.4	54.6	18.5	33.9
Filtered Air Control (0 ppm)	22 M	9.35	8.8	701	3.2	299.2	0.0	17.2	50.8	54.3	18.4	33.9
HMDS (50 ppm)	81 M	9.59	11.7	738	1.7	163.0	0.0	17.5	52.0	54.2	18.2	33.7
HMDS (50 ppm)	82 M	9.40	12.0	742	1.8	169.2	0.0	17.4	50.5	53.7	18.5	34.5
HMDS (50 ppm)	83 M	9.05	9.4	678	2.0	181.0	0.0	17.2	49.1	54.2	19.0	35.0
HMDS (50 ppm)	84 M	9.58	10.1	719	2.3	220.3	0.0	17.6	51.5	53.8	18.4	34.2
HMDS (50 ppm)	85 M	8.96	9.4	722	2.3	206.1	0.0	16.8	47.8	53.4	18.8	35.1
HMDS (50 ppm)	86 M	8.97	10.2	735	3.3	296.0	0.0	17.2	49.2	54.9	19.2	35.0
HMDS (50 ppm)	87 M	8.97	10.4	775	3.0	269.1	0.0	17.7	48.8	54.4	19.7	36.3
HMDS (50 ppm)	88 M	8.64	9.4	728	2.1	181.4	0.0	17.0	47.7	55.2	19.7	35.6
HMDS (200 ppm)	141 M	9.32	13.2	708	1.5	139.8	0.0	17.5	50.2	53.9	18.8	34.9
HMDS (200 ppm)	142 M	8.53	10.1	645	1.8	153.5	0.0	16.6	46.1	54.0	19.5	36.0
HMDS (200 ppm)	143 M	8.74	12.2	787	2.4	209.8	0.0	16.7	47.7	54.6	19.1	35.0
HMDS (200 ppm)	144 M	9.29	7.0	754	3.5	325.2	0.0	17.8	50.4	54.3	19.2	35.3
HMDS (200 ppm)	145 M	9.06	13.0	782	3.6	326.2	0.0	17.3	49.3	54.4	19.1	35.1
HMDS (200 ppm)	146 M	9.30	7.6	768	2.4	223.2	0.0	17.6	50.5	54.3	18.9	34.9
HMDS (200 ppm)	147 M	9.34	11.8	706	4.1	382.9	0.0	17.7	50.4	54.0	19.0	35.1
HMDS (200 ppm)	148 M	9.02	11.6	774	3.4	306.7	0.0	17.4	49.2	54.6	19.3	35.4
HMDS (200 ppm)	149 M	9.28	12.2	722	3.3	306.2	0.0	17.6	51.6	55.6	19.0	34.1
HMDS (200 ppm)	150 M	8.73	10.7	728	3.3	288.1	0.0	17.1	47.9	54.9	19.6	35.7

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Group	Animal Number	Sex	Hematology								MCHC %
			RBC mill/cmm	WBC thous/cmm	PLT thous/cmm	RETPC %	RETABS thous/cmm	NRBC #/100	HGB g/dL	HCT %	
HMDS (1000 ppm)	201	M	9.05	10.6	786	2.1	190.1	0.0	17.0	49.1	54.2
	202	M	8.66	10.1	782	1.3	112.6	0.0	16.3	46.7	53.9
	203	M	9.05	12.3	718	1.4	126.7	0.0	17.3	49.1	54.2
	204	M	8.96	10.4	835	3.0	268.8	0.0	17.2	48.3	53.9
	205	M	8.79	9.1	678	1.6	140.6	0.0	16.6	47.6	54.1
	206	M	8.61	9.4	708	3.3	284.1	0.0	17.3	47.0	54.6
	207	M	8.97	10.4	740	3.3	296.0	0.0	17.0	48.8	54.4
	208	M	8.77	10.1	759	2.7	236.8	0.0	17.0	48.1	54.9
	209	M	8.88	9.4	727	2.1	186.5	0.0	16.8	49.3	55.5
	210	M	8.80	9.0	745	3.8	334.4	0.0	16.6	48.8	55.4
HMDS (5000 ppm)	261	M	8.55	11.7	797	2.6	222.3	0.0	16.3	46.3	54.1
	262	M	9.49	10.0	678	2.4	227.8	0.0	17.6	51.2	53.9
	263	M	8.39	11.5	784	3.0	251.7	0.0	15.9	45.6	54.3
	264	M	8.20	10.0	778	1.7	139.4	0.0	15.9	44.8	54.6
	265	M	8.82	10.3	748	2.4	211.7	0.0	16.5	47.9	54.3
	266	M	9.10	12.2	846	3.9	354.9	0.0	17.6	49.2	54.1
	267	M	8.42	10.8	711	2.9	244.2	3.0	16.0	46.9	55.7
	268	M	8.60	10.1	793	3.2	275.2	0.0	16.7	48.2	56.1
	269	M	8.36	8.4	806	2.3	192.3	0.0	15.8	46.6	55.7
	270	M	7.63	8.1	668	2.9	221.3	0.0	15.0	42.3	55.5
Intra-assay Control (0 ppm)	321	M	8.91	5.0	624	2.1	187.1	0.0	17.3	48.4	54.3
	322	M	9.54	4.5	651	3.1	295.7	0.0	17.4	51.1	53.6
	323	M	8.62	7.1	642	2.7	232.7	0.0	16.2	47.0	54.5
	324	M	8.85	3.8	673	2.1	185.9	0.0	16.8	48.2	54.5
	325	M	8.91	5.3	650	3.1	2762	0.0	17.4	48.6	54.6
	326	M	8.57	3.7	617	2.5	214.3	0.0	17.0	46.5	54.3
	327	M	8.78	4.9	620	2.2	193.2	0.0	16.6	47.9	54.5
	328	M	9.17	4.8	626	3.5	321.0	0.0	17.1	50.6	55.2
	329	M	8.20	5.2	578	2.9	237.8	0.0	15.2	44.1	53.8
	330	M	9.01	4.9	544	2.7	243.3	0.0	17.3	49.9	55.4

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Hematology											
Group	Animal Number	Sex	RBC mill/cmm	WBC thous/cmm	PLT thous/cmm	RETPC %	RETABS thous/cmm	NRBC #/100	HGB g/dL	MCH pg	MCHC %
Filtered Air Control (0 ppm)	31	F	8.73	7.7	624	2.7	235.7	1.0	17.0	49.8	57.1
Filtered Air Control (0 ppm)	32	F	8.53	5.5	824	2.9	247.4	0.0	16.4	48.8	57.2
HMDS (50 ppm)	33	F	7.85	10.4	709	3.4	266.9	0.0	16.5	45.1	57.5
HMDS (50 ppm)	34	F	8.49	10.8	691	2.3	195.3	0.0	16.5	48.2	56.8
HMDS (50 ppm)	35	F	8.80	10.7	722	3.5	308.0	1.0	17.1	50.7	57.6
HMDS (50 ppm)	36	F	8.74	10.7	744	3.3	288.4	0.0	17.5	50.6	57.9
HMDS (50 ppm)	37	F	8.82	8.0	635	2.1	185.2	0.0	17.5	50.5	57.3
HMDS (50 ppm)	38	F	8.30	8.2	575	3.5	290.5	0.0	16.2	47.5	57.2
HMDS (50 ppm)	39	F	8.34	8.1	801	3.2	266.9	0.0	16.5	49.0	58.7
HMDS (50 ppm)	40	F	8.19	9.4	850	3.0	245.7	0.0	16.6	47.7	58.3
HMDS (200 ppm)	91	F	7.83	10.0	725	2.4	187.9	0.0	15.7	45.3	57.8
HMDS (200 ppm)	92	F	7.98	9.5	683	2.8	223.4	0.0	15.8	46.1	57.8
HMDS (200 ppm)	93	F	8.84	9.4	653	2.6	229.8	0.0	17.6	49.9	56.5
HMDS (200 ppm)	94	F	8.71	7.7	701	3.2	278.7	0.0	16.6	49.6	56.9
HMDS (200 ppm)	95	F	8.44	9.2	841	3.0	253.2	0.0	17.0	48.8	57.8
HMDS (200 ppm)	96	F	8.19	8.8	672	2.9	237.5	0.0	16.6	47.7	58.2
HMDS (200 ppm)	97	F	8.01	7.6	793	3.1	248.3	0.0	16.4	46.4	57.9
HMDS (200 ppm)	98	F	8.89	8.7	774	2.9	257.8	0.0	17.1	51.6	58.0
HMDS (200 ppm)	99	F	8.31	6.9	781	3.1	257.6	0.0	16.7	47.3	56.9
HMDS (200 ppm)	100	F	8.25	9.9	796	2.9	239.3	2.0	17.0	48.2	58.4
HMDS (200 ppm)	151	F	8.25	9.1	714	2.8	231.0	0.0	16.2	47.9	58.0
HMDS (200 ppm)	152	F	8.20	11.6	759	2.3	188.6	0.0	16.4	46.2	56.4
HMDS (200 ppm)	153	F	7.87	11.6	686	3.1	244.0	0.0	15.8	44.3	56.3
HMDS (200 ppm)	154	F	8.15	9.3	708	3.1	252.7	0.0	16.7	47.1	57.8
HMDS (200 ppm)	155	F	8.39	8.2	717	2.2	184.6	1.0	16.8	48.7	58.1
HMDS (200 ppm)	156	F	8.04	9.3	761	2.5	201.0	0.0	16.7	46.1	57.3
HMDS (200 ppm)	157	F	8.80	8.1	752	3.4	299.2	0.0	16.8	50.3	57.2
HMDS (200 ppm)	158	F	9.48	11.5	706	2.6	246.5	1.0	17.9	53.6	56.5
HMDS (200 ppm)	159	F	7.57	10.1	741	3.2	242.2	0.0	15.3	44.9	59.3
HMDS (200 ppm)	160	F	8.61	9.6	797	2.8	241.1	0.0	17.2	50.2	58.3

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Hematology												
Group	Animal Number	Sex	RBC mill/cmm	WBC thous/cmm	PLT thous/cmm	RETPC %	RETABS thous/cmm	NRBC #/100	HGB g/dL	HCT %	MCH pg	MCHC %
HMDS (1000 ppm)	211	F	8.49	9.3	721	3.7	314.1	0.0	16.7	49.6	58.4	19.7
	212	F	7.97	10.1	731	3.2	255.0	0.0	16.1	46.0	57.7	20.2
	213	F	8.34	10.4	721	2.6	216.8	0.0	16.6	47.8	57.3	19.9
	214	F	8.84	11.3	711	2.3	203.3	0.0	17.0	51.2	57.9	19.2
	215	F	8.44	9.3	727	3.4	287.0	0.0	17.0	49.2	58.3	20.1
	216	F	9.36	7.5	775	3.2	299.5	1.0	18.0	53.4	57.1	19.2
	217	F	8.79	9.9	772	3.3	290.1	1.0	17.4	50.5	57.5	19.8
	218	F	8.17	7.8	677	3.5	286.0	0.0	16.7	47.0	57.5	20.4
	219	F	8.49	10.1	772	1.9	161.3	0.0	16.4	49.8	58.7	19.3
	220	F	8.19	10.4	816	2.4	196.6	0.0	16.5	48.1	58.7	20.1
HMDS (5000 ppm)	271	F	8.50	12.0	742	3.1	263.5	0.0	16.6	49.2	57.9	19.5
	272	F	8.15	12.8	769	3.0	244.5	0.0	16.5	47.4	58.2	20.2
	273	F	8.63	9.4	769	3.0	258.9	2.0	17.0	49.5	57.4	19.7
	274	F	8.70	8.9	757	2.4	208.8	0.0	16.7	49.9	57.4	19.2
	275	F	8.21	8.0	751	2.9	238.1	0.0	16.3	48.2	58.7	19.9
	276	F	8.66	9.2	778	2.1	181.9	0.0	17.5	49.8	57.5	20.2
	277	F	8.19	8.4	735	2.2	180.2	0.0	16.3	48.6	59.3	19.9
	278	F	8.03	9.7	788	2.7	216.8	0.0	16.1	46.7	58.2	20.0
	279	F	7.07	10.5	728	3.5	247.5	0.0	14.0	41.9	59.3	19.8
	280	F	8.74	11.9	686	3.3	288.4	0.0	17.3	51.8	59.3	19.8
Intra-assay Control (0 ppm)	331	F	8.01	3.7	601	2.8	224.3	0.0	16.1	46.0	57.4	20.1
	332	F	8.40	3.7	633	2.1	176.4	0.0	16.7	47.3	56.3	19.9
	333	F	7.56	3.4	631	2.1	158.8	0.0	15.0	42.6	56.4	19.8
	334	F	8.32	4.2	622	1.9	158.1	0.0	16.3	47.3	56.9	19.6
	335	F	8.67	4.6	632	2.6	225.4	0.0	16.8	48.9	56.4	19.4
	336	F	8.45	3.5	604	3.4	287.3	0.0	16.4	48.8	57.8	19.4
	337	F	8.23	3.7	677	2.6	214.0	0.0	16.0	47.9	58.2	19.4
	338	F	8.23	4.0	734	2.6	214.0	0.0	15.9	47.6	57.8	19.3
	339	F	7.91	3.5	576	3.3	261.0	0.0	15.9	46.4	58.7	20.1
	340	F	8.43	3.6	656	2.1	177.0	2.0	16.5	49.8	59.1	19.6

**Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous Whole-Body Inhalation Exposure in Fischer 344 Rats**

Appendix B - Individual Animal Data

Hematology									
Group	Animal Number	Sex	MAT NEU thsn/cmm	LYMPH thsn/cmm	MONO thsn/cmm	EOSIN thsn/cmm	BASO thsn/cmm	IMM NEU thsn/cmm	
Filtered Air Control (0 ppm)	21	M	1.2	9.2	0.4	0.1	0.0	0.0	0.0
	22	M	1.6	7.2	0.0	0.0	0.0	0.0	0.0
	23	M	2.5	9.1	0.1	0.0	0.0	0.0	0.0
	24	M	2.6	9.0	0.2	0.1	0.0	0.0	0.0
	25	M	1.5	7.4	0.4	0.1	0.0	0.0	0.0
	26	M	2.1	7.5	0.3	0.2	0.0	0.0	0.0
	27	M	2.1	7.1	0.1	0.1	0.0	0.0	0.0
	28	M	2.1	8.0	0.1	0.0	0.0	0.0	0.0
	29	M	1.1	9.3	0.0	0.0	0.0	0.0	0.0
	30	M	2.2	7.1	0.0	0.1	0.0	0.0	0.0
HMDs (50 ppm)	81	M	1.5	11.6	0.1	0.0	0.0	0.0	0.0
	82	M	2.2	7.7	0.1	0.1	0.0	0.0	0.0
	83	M	2.2	10.0	0.0	0.0	0.0	0.0	0.0
	84	M	1.1	5.7	0.0	0.1	0.0	0.1	0.1
	85	M	2.0	10.9	0.1	0.0	0.0	0.0	0.0
	86	M	1.7	5.7	0.2	0.0	0.0	0.0	0.0
	87	M	1.7	9.7	0.2	0.1	0.0	0.1	0.1
	88	M	1.7	9.9	0.0	0.0	0.0	0.0	0.0
	89	M	2.7	9.3	0.1	0.1	0.0	0.0	0.0
	90	M	2.1	8.5	0.1	0.0	0.0	0.0	0.0
HMDs (200 ppm)	141	M	1.6	8.8	0.1	0.0	0.0	0.0	0.0
	142	M	1.5	8.5	0.0	0.1	0.0	0.0	0.0
	143	M	1.3	8.9	0.1	0.1	0.0	0.0	0.0
	144	M	2.2	9.2	0.1	0.1	0.1	0.0	0.0
	145	M	2.2	8.5	0.1	0.1	0.0	0.0	0.0
	146	M	1.8	9.0	0.0	0.0	0.0	0.0	0.0
	147	M	2.7	7.7	0.4	0.0	0.0	0.0	0.0
	148	M	1.1	6.2	0.1	0.0	0.0	0.0	0.0
	149	M	1.8	6.5	0.0	0.1	0.0	0.0	0.0
	150	M	1.9	6.6	0.2				

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
 Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Group	HMDS (1000 ppm)	Animal Number	Hematology					
			MAT NEU thsm/cm <sup>3</sup>	LYMPH thsm/cm <sup>3</sup>	MONO thsm/cm <sup>3</sup>	EOSIN thsm/cm <sup>3</sup>	BASO thsm/cm <sup>3</sup>	IMM NEU thsm/cm <sup>3</sup>
		201	M	1.8	8.6	0.1	0.1	0.0
		202	M	1.4	8.5	0.2	0.0	0.0
		203	M	2.1	10.1	0.1	0.0	0.0
		204	M	2.4	7.9	0.1	0.0	0.0
		205	M	2.0	6.7	0.2	0.0	0.0
		206	M	1.6	7.3	0.3	0.0	0.2
		207	M	1.5	8.8	0.1	0.0	0.0
		208	M	2.4	7.0	0.4	0.1	0.0
		209	M	1.4	8.0	0.0	0.0	0.0
		210	M	1.7	7.2	0.1	0.0	0.0
	HMDs (5000 ppm)	261	M	2.2	9.0	0.2	0.2	0.0
		262	M	1.4	8.6	0.0	0.0	0.0
		263	M	2.2	9.3	0.0	0.0	0.0
		264	M	2.2	7.7	0.1	0.0	0.0
		265	M	2.5	7.7	0.1	0.0	0.0
		266	M	3.1	8.9	0.1	0.1	0.0
		267	M	3.0	6.9	0.5	0.1	0.2
		268	M	2.3	7.7	0.0	0.1	0.0
		269	M	1.5	6.9	0.0	0.0	0.0
		270	M	1.9	6.2	0.0	0.1	0.0
Intra-assay Control (0 ppm)		321	M	1.3	3.7	0.0	0.1	0.0
		322	M	0.7	3.7	0.1	0.1	0.0
		323	M	1.3	5.7	0.1	0.1	0.0
		324	M	0.8	3.0	0.0	0.0	0.0
		325	M	0.7	4.6	0.0	0.0	0.0
		326	M	0.8	2.6	0.1	0.1	0.1
		327	M	0.5	4.3	0.0	0.1	0.0
		328	M	1.0	3.7	0.1	0.0	0.0
		329	M	1.5	3.7	0.1	0.0	0.0
		330	M				4.0	0.0
							0.8	

**Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous Whole-Body Inhalation Exposure in Fischer 344 Rats**

**Appendix B - Individual Animal Data**

Group	Animal Number	Sex	Hematology						IMM NEU thsm/cm <sup>3</sup>	IMM NEU thsm/cm <sup>3</sup>	
			MAT NEU thsm/cm <sup>3</sup>	LYMPH thsm/cm <sup>3</sup>	MONO thsm/cm <sup>3</sup>	EOSIN thsm/cm <sup>3</sup>	BA SO thsm/cm <sup>3</sup>				
Filtered	31	F	1.6	5.7	0.2	0.2	0.0	0.0	0.0	0.0	0.0
Air Control (0 ppm)	32	F	0.8	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	33	F	2.5	7.7	0.1	0.1	0.0	0.0	0.0	0.0	0.0
	34	F	2.1	8.6	0.0	0.1	0.0	0.0	0.0	0.0	0.0
	35	F	1.7	8.6	0.0	0.4	0.0	0.0	0.0	0.0	0.0
	36	F	2.0	8.5	0.2	0.0	0.0	0.0	0.0	0.0	0.0
	37	F	1.2	6.3	0.4	0.1	0.0	0.0	0.0	0.0	0.0
	38	F	0.7	7.3	0.2	0.1	0.0	0.0	0.0	0.0	0.0
	39	F	1.8	6.1	0.1	0.2	0.0	0.0	0.0	0.0	0.0
	40	F	2.4	7.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
HMDs (50 ppm)	91	F	2.2	7.4	0.3	0.1	0.0	0.0	0.0	0.0	0.0
	92	F	1.7	7.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0
	93	F	1.7	7.4	0.2	0.1	0.0	0.0	0.0	0.0	0.0
	94	F	1.3	6.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0
	95	F	1.6	7.5	0.1	0.1	0.0	0.0	0.0	0.0	0.0
	96	F	1.8	6.6	0.3	0.1	0.0	0.0	0.0	0.0	0.0
	97	F	1.7	5.5	0.0	0.3	0.0	0.0	0.0	0.0	0.0
	98	F	1.8	6.7	0.1	0.1	0.0	0.0	0.0	0.0	0.0
	99	F	1.4	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	100	F	2.6	7.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0
HMDs (200 ppm)	151	F	2.2	6.8	0.1	0.0	0.0	0.0	0.0	0.0	0.0
	152	F	1.9	9.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	153	F	2.0	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	154	F	2.0	6.9	0.2	0.3	0.0	0.0	0.0	0.0	0.0
	155	F	1.5	6.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0
	156	F	2.0	7.3	0.0	0.0	0.2	0.0	0.0	0.0	0.0
	157	F	1.3	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	158	F	3.1	8.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0
	159	F	2.5	7.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0
	160	F	1.9	7.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0

**Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous Whole-Body Inhalation Exposure in Fischer 344 Rats**

**Appendix B - Individual Animal Data**

Group	Animal Number	Sex	Hematology						IMM NEU thsm/cm <sup>3</sup>	BASO thsm/cm <sup>3</sup>	EOSIN thsm/cm <sup>3</sup>	MONO thsm/cm <sup>3</sup>
			MAT	NEU	LYMPH	THYM	EOSIN					
HMDS (1000 ppm)	211	F	0.7	8.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	212	F	1.9	8.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	213	F	1.5	8.6	0.1	0.2	0.0	0.0	0.0	0.0	0.0	0.0
	214	F	1.9	9.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	215	F	1.6	7.6	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
	216	F	0.6	6.8	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
	217	F	1.9	7.9	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
	218	F	1.8	5.9	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
	219	F	2.8	6.7	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0
	220	F	2.7	7.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
HMDS (5000 ppm)	271	F	1.7	10.1	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0
	272	F	2.0	10.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	273	F	1.7	7.4	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0
	274	F	1.8	7.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	275	F	1.8	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	276	F	1.4	7.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	277	F	1.7	6.6	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
	278	F	1.6	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	279	F	1.7	8.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	280	F	1.9	9.8	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
Intra-assay Control (0 ppm)	331	F	0.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	332	F	0.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	333	F	0.7	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	334	F	0.9	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	335	F	1.4	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	336	F	0.5	2.9	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
	337	F	1.4	2.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	338	F	1.3	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	339	F	1.1	2.2	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0
	340	F	1.0	2.5	0.0	0.1	0.0	0.0	0.0	0.0	0.0	0.0

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Red Blood Cell Morphology and Platelet Observations

<u>Group</u>	<u>Animal</u>	<u>Males</u>		<u>Females</u>	
		<u>Observation</u>		<u>Observation</u>	
Filtered Air Control (0 ppm)	21	Polychromasia +;	Platelets Adequate and Normal	31	Polychromasia +; Platelet Clumps
	22	Polychromasia +;	Platelets Adequate and Normal	32	Polychromasia +; Platelets Adequate and Normal
	23	Polychromasia +;	Platelets Adequate and Normal	33	Polychromasia +; Platelets Adequate and Normal
	24	Polychromasia +;	Platelets Adequate and Normal	34	Polychromasia +; Platelets Adequate and Normal
	25	Polychromasia +;	Platelets Adequate and Normal	35	Polychromasia +; Platelets Adequate and Normal
	26	Polychromasia +;	Platelets Adequate and Normal	36	Polychromasia +; Platelets Adequate and Normal
	27	Polychromasia +;	Platelets Adequate and Normal	37	Polychromasia +; Anisocytosis +; Platelets Adequate and Normal
	28	Polychromasia +;	Platelets Adequate and Normal	38	Polychromasia +; Platelet Clumps
	29	Polychromasia +;	Platelet Clumps	39	Polychromasia +; Platelets Adequate and Normal
	30	Polychromasia +;	Platelets Adequate and Normal	40	Polychromasia +; Platelets Adequate and Normal

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Red Blood Cell Morphology and Platelet Observations

Group	Animal	Males		Females	
		Observation		Observation	
HMDS (50 ppm)	81	Polychromasia +;	Platelets Adequate and Normal	91	Polychromasia +;
	82	Polychromasia +;	Platelets Adequate and Normal	92	Polychromasia +;
	83	Polychromasia +;	Platelets Adequate and Normal	93	Polychromasia +;
	84	Polychromasia +;	Platelets Adequate and Normal	94	Polychromasia +;
	85	Polychromasia +;	Platelets Adequate and Normal	95	Polychromasia +;
	86	Polychromasia +;	Platelets Adequate and Normal	96	Polychromasia +;
	87	Polychromasia +;	Platelets Adequate and Normal	97	Polychromasia +;
	88	Polychromasia +;	Platelets Adequate and Normal	98	Polychromasia +;
	89	Polychromasia +;	Platelets Adequate and Normal	99	Polychromasia +;
	90	Polychromasia +;	Platelets Adequate and Normal	100	Polychromasia +;

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Red Blood Cell Morphology and Platelet Observations

Group	Males		Females	
	Animal	Observation	Animal	Observation
HMDS (200 ppm)	141	Polychromasia +; Platelets Adequate and Normal	151	Polychromasia +; Anisocytosis +; Platelets Adequate and Normal
	142	Polychromasia +; Platelets Adequate and Normal	152	Polychromasia +; Platelets Adequate and Normal
	143	Polychromasia +; Platelets Adequate and Normal	153	Polychromasia +; Anisocytosis +; Platelets Adequate and Normal
	144	Polychromasia +; Platelets Adequate and Normal	154	Polychromasia +; Platelets Adequate and Normal
	145	Polychromasia +; Platelets Adequate and Normal	155	Polychromasia +; Platelets Adequate and Normal
	146	Polychromasia +; Platelets Adequate and Normal	156	Polychromasia +; Platelets Adequate and Normal
	147	Polychromasia +; Platelets Adequate and Normal	157	Polychromasia +; Anisocytosis +; Poikilocytosis +; Platelets Adequate and Normal
	148	Polychromasia +; Platelets Adequate and Normal	158	Polychromasia +; Platelets Adequate and Normal
	149	Polychromasia +; Platelets Adequate and Normal	159	Polychromasia +; Anisocytosis +; Platelets Adequate and Normal
	150	Polychromasia +; Platelets Adequate and Normal	160	Polychromasia +; Platelets Adequate and Normal

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Red Blood Cell Morphology and Platelet Observations

Group	Animal	Males		Females	
		Observation		Observation	
HMDS (1000 ppm)	201	Polychromasia +;	Platelets Adequate and Normal	211	Polychromasia +; Anisocytosis +; Platelets Adequate and Normal
	202	Polychromasia +;	Platelets Adequate and Normal	212	Polychromasia +; Anisocytosis +; Platelets Adequate and Normal
	203	Polychromasia +;	Platelets Adequate and Normal	213	Polychromasia +; Platelets Adequate and Normal
	204	Polychromasia +;	Platelets Adequate and Normal	214	Polychromasia +; Platelets Adequate and Normal
	205	Polychromasia +;	Platelets Adequate and Normal	215	Polychromasia +; Platelets Adequate and Normal
	206	Polychromasia +;	Platelets Adequate and Normal	216	Polychromasia +; Platelet Clumps
	207	Polychromasia +;	Platelets Adequate and Normal	217	Polychromasia +; Platelets Adequate and Normal
	208	Polychromasia +;	Platelets Adequate and Normal	218	Polychromasia +; Platelets Adequate and Normal
	209	Polychromasia +;	Platelets Adequate and Normal	219	Polychromasia +; Platelets Adequate and Normal
	210	Polychromasia +;	Platelets Adequate and Normal	220	Polychromasia +; Platelets Adequate and Normal

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Red Blood Cell Morphology and Platelet Observations

<u>Group</u>	<u>Animal</u>	<u>Males</u>		<u>Females</u>	
		<u>Observation</u>		<u>Observation</u>	
HMDS (5000 ppm)	261	Polychromasia +;	Platelets Adequate and Normal	271	Polychromasia +;
					Platelets Adequate and Normal
	262	Polychromasia +;	Platelets Adequate and Normal	272	Polychromasia +;
					Anisocytosis +;
					Platelets Adequate and Normal
	263	Polychromasia +;	Platelets Adequate and Normal	273	Polychromasia +;
					Platelets Adequate and Normal
	264	Polychromasia +;	Platelets Adequate and Normal	274	Polychromasia +;
					Platelets Adequate and Normal
	265	Polychromasia +;	Platelets Adequate and Normal	275	Polychromasia +;
					Platelets Adequate and Normal
	266	Polychromasia +;	Platelets Adequate and Normal	276	Polychromasia +;
					Platelets Adequate and Normal
	267	Polychromasia +;	Platelets Adequate and Normal	277	Polychromasia +;
					Platelets Adequate and Normal
	268	Polychromasia +;	Platelets Adequate and Normal	278	Polychromasia ++;
					Anisocytosis +;
					Platelets Adequate and Normal
	269	Polychromasia +;	Platelets Adequate and Normal	279	Polychromasia +;
					Platelets Adequate and Normal
	270	Polychromasia +;	Platelets Adequate and Normal	280	Polychromasia +;
					Platelets Adequate and Normal

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Red Blood Cell Morphology and Platelet Observations					
<u>Group</u>	<u>Animal</u>	Males		Females	
		<u>Observation</u>		<u>Observation</u>	
Intra-assay Control (0 ppm)	321	Polychromasia +;	Platelets Adequate and Normal	331	Polychromasia +;
	322	Polychromasia +;	Platelets Adequate and Normal	332	Polychromasia +;
	323	Polychromasia +;	Platelets Adequate and Normal	333	Polychromasia +;
	324	Polychromasia +;	Platelets Adequate and Normal	334	Polychromasia +;
	325	Polychromasia +;	Platelets Adequate and Normal	335	Polychromasia +;
	326	Polychromasia +;	Platelets Adequate and Normal	336	Polychromasia +;
	327	Polychromasia +;	Platelets Adequate and Normal	337	Polychromasia +;
	328	Polychromasia +;	Platelets Adequate and Normal	338	Polychromasia ++;
	329	Polychromasia +;	Platelets Adequate and Normal	339	Polychromasia +;
	330	Polychromasia +;	Platelets Adequate and Normal	340	Polychromasia +;

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Group	Animal Number	Sex	Clinical Chemistry								
			ALT IU/L	AST IU/L	GGT IU/L	TBIL mg/dL	BUN mg/dL	CREA mg/dL	GLU mg/dL	TP g/dL	CHOL mg/dL
Filtered Air Control (0 ppm)	21	M	44	105	0	0.47	18	0.6	184	6.6	18
	22	M	180	41	91	2	0.39	17	0.6	114	6.5
	23	M	167	37	78	2	0.47	18	0.4	105	6.3
	24	M	162	43	90	2	0.22	17	0.6	104	6.7
	25	M	184	40	89	2	0.21	17	0.4	97	6.6
	26	M	182	41	84	1	0.37	18	0.5	100	7.1
	27	M	170	48	90	0	0.30	16	0.5	94	6.5
	28	M	183	45	93	2	0.34	16	0.6	89	6.8
	29	M	178	47	112	2	0.49	16	0.5	90	6.8
	30	M	179	42	85	0	0.42	15	0.5	88	6.9
HMDS (50 ppm)	81	M	180	42	99	3	0.34	17	0.5	97	6.7
	82	M	183	44	86	1	0.34	17	0.6	109	6.4
	83	M	159	36	75	1	0.36	16	0.6	104	6.6
	84	M	181	47	92	1	0.28	16	0.4	179	6.6
	85	M	161	43	91	0	0.26	18	0.5	183	6.5
	86	M	173	44	85	3	0.42	15	0.6	92	7.2
	87	M	170	37	83	0	0.48	16	0.4	98	6.8
	88	M	180	42	93	0	0.38	17	0.5	98	7.0
	89	M	166	46	112	1	0.23	17	0.6	100	6.9
	90	M	161	40	86	0	0.42	15	0.5	102	6.8
HMDS (200 ppm)	141	M	176	40	109	2	0.42	18	0.4	117	6.6
	142	M	156	43	90	2	0.29	18	0.5	152	6.6
	143	M	168	41	91	2	0.29	17	0.5	86	6.6
	144	M	168	38	90	3	0.32	16	0.6	110	6.8
	145	M	173	41	94	2	0.44	17	0.6	100	6.7
	146	M	183	41	88	1	0.28	14	0.5	89	7.1
	147	M	175	38	85	1	0.35	15	0.7	86	6.6
	148	M	177	40	90	2	0.22	15	0.3	92	6.8
	149	M	155	39	87	0	0.46	15	0.4	93	6.7
	150	M	179	41			0.20		0.5	105	6.8

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

		Clinical Chemistry					
<u>Group</u>	<u>Animal Number</u>	ALP <u>IU/L</u>	AST <u>IU/L</u>	GGT <u>IU/L</u>	TBL <u>mg/dL</u>	BUN <u>mg/dL</u>	CHOL <u>mg/dL</u>
HMD <b>S</b> (1000 ppm)	201	M 171	43	88	2	0.33	19
	202	M 159	37	75	2	0.26	17
	203	M 169	41	91	0	0.39	18
	204	M 166	34	80	2	0.31	19
	205	M 167	36	79	1	0.15	16
	206	M 168	51	100	0	0.46	16
	207	M 178	35	86	0	0.39	18
	208	M 173	38	93	1	0.24	18
	209	M 157	40	96	0	0.25	17
	210	M 169	34	78	2	0.25	18
HMD <b>S</b> (5000 ppm)	261	M 355	43	73	3	0.27	26
	262	M 169	44	98	0	0.30	21
	263	M 159	42	90	4	0.40	18
	264	M 144	36	90	2	0.31	18
	265	M 156	34	90	3	0.30	18
	266	M 170	44	93	3	0.25	19
	267	M 142	36	88	4	0.25	18
	268	M 155	36	93	2	0.39	19
	269	M 147	36	85	2	0.34	19
	270	M 147	42	102	0	0.42	20
Intra-assay Control (0 ppm)	321	M 174	54	97	3	0.44	17
	322	M 187	56	100	1	0.35	19
	323	M 192	58	111	3	0.38	18
	324	M 187	52	102	0	0.44	17
	325	M 168	49	98	1	0.26	18
	326	M 170	41	82	0	0.23	17
	327	M 178	43	103	0	0.71	19
	328	M 196	87	149	0	0.29	17
	329	M 158	47	104	1	0.26	15
	330	M 197	49	99	1	0.39	17

Immunotoxicity Assessment of Hexamethydisiloxane (HMDS) Following a 28-Day Continuous Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

		Clinical Chemistry									
Group	Animal Number	Sex	ALP IU/L	AST IU/L	GGT IU/L	TBIL mg/dL	BUN mg/dL	CREA mg/dL	GLU mg/dL	TP g/dL	CHOL mg/dL
Filtered Air Control (0 ppm)	31	F	134	35	95	0	0.56	20	0.5	126	7.0
	32	F	113	39	104	0	0.61	18	0.5	108	6.7
	33	F	102	32	70	1	0.42	16	0.5	76	6.2
	34	F	145	39	88	1	0.58	18	0.5	82	6.7
	35	F	131	35	80	1	0.41	19	0.5	92	6.7
	36	F	125	34	82	1	0.39	17	0.4	87	6.7
	37	F	131	39	79	3	0.37	18	0.6	92	6.8
	38	F	111	35	79	1	0.40	18	0.5	93	6.3
	39	F	110	33	85	1	0.45	19	0.5	92	7.2
	40	F	109	32	74	1	0.45	18	0.5	88	7.3
HMDs (50 ppm)	91	F	127	36	71	3	0.48	18	0.5	86	6.4
	92	F	99	37	75	3	0.45	19	0.6	88	6.5
	93	F	130	49	104	0	0.53	17	0.5	85	6.5
	94	F	107	35	73	1	0.43	18	0.4	98	6.8
	95	F	130	32	105	3	0.37	16	0.6	88	7.2
	96	F	119	29	72	0	0.45	18	0.6	83	6.7
	97	F	109	36	95	0	0.50	19	0.7	95	6.9
	98	F	127	32	89	1	0.35	17	0.6	100	7.1
	99	F	136	37	83	3	0.50	16	0.5	93	7.0
	100	F	132	37	82	1	0.51	16	0.5	76	7.3
HMDs (200 ppm)	151	F	116	44	95	2	0.66	18	0.6	84	6.9
	152	F	127	37	79	3	0.58	20	0.4	91	6.5
	153	F	135	35	78	1	0.57	18	0.5	96	6.2
	154	F	137	30	79	3	0.49	17	0.5	85	6.8
	155	F	141	29	83	0	0.41	18	0.5	93	6.8
	156	F	127	32	78	2	0.39	17	0.4	106	7.0
	157	F	119	39	104	0	0.36	17	0.6	120	6.6
	158	F	155	39	96	1	0.63	18	0.6	108	6.7
	159	F	142	38	126	0	0.69	18	0.5	86	6.8
	160	F	126	40	86	3	0.47	19	0.5	100	7.2

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Group	Animal Number	Sex	Clinical Chemistry						TP g/dL	CHOL mg/dL	
			ALP IU/L	ALT IU/L	AST IU/L	GGT IU/L	TBIL mg/dL	BUN mg/dL	CREA mg/dL	GLU mg/dL	
HMDS (1000 ppm)	211	F	107	36	80	3	0.68	17	0.5	88	6.7
	212	F	108	30	79	3	0.64	17	0.5	101	6.6
	213	F	118	35	72	3	0.31	16	0.5	93	6.5
	214	F	111	31	83	1	0.52	18	0.6	87	6.5
	215	F	120	41	96	3	0.35	18	0.6	103	6.6
	216	F	146	38	102	2	0.67	19	0.6	112	7.1
	217	F	126	31	76	3	0.52	16	0.6	93	7.0
	218	F	117	31	77	1	0.47	16	0.5	89	7.2
	219	F	145	38	98	1	0.57	17	0.6	94	6.6
	220	F	120	31	74	2	0.40	16	0.5	102	7.0
HMDS (5000 ppm)	271	F	136	38	78	1	0.55	19	0.4	88	6.6
	272	F	113	32	69	0	0.49	16	0.4	82	6.9
	273	F	116	33	71	2	0.63	20	0.4	94	6.9
	274	F	115	36	81	3	0.44	17	0.5	104	6.3
	275	F	129	30	74	3	0.39	17	0.6	90	6.8
	276	F	127	40	93	2	0.48	17	0.6	98	7.2
	277	F	111	28	66	2	0.48	17	0.7	88	6.9
	278	F	134	33	83	1	0.38	16	0.4	91	7.0
	279	F	109	34	84	3	0.58	19	0.5	95	6.7
	280	F	129	39	105	1	0.65	17	0.6	118	6.7
Intra-assay Control (0 ppm)	331	F	111	70	115	3	0.25	19	0.4	93	6.6
	332	F	137	41	93	0	0.34	16	0.5	85	6.8
	333	F	123	38	89	2	0.48	16	0.4	92	6.7
	334	F	148	42	93	1	0.50	15	0.4	95	6.6
	335	F	169	45	110	1	0.29	18	0.6	97	6.6
	336	F	114	39	83	2	0.31	17	0.5	86	6.8
	337	F	137	57	128	2	0.36	18	0.5	84	7.0
	338	F	119	48	82	0	0.44	16	0.5	89	7.1
	339	F	117	42	85	0	0.41	16	0.4	94	6.7
	340	F	119	48			0.60	17	0.6	80	7.0

**Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous Whole-Body Inhalation Exposure in Fischer 344 Rats**

**Appendix B - Individual Animal Data**

**Lymphoid Organ Cellularity and Viability**

<u>Group</u>	<u>Animal</u>	<u>Sex</u>	<u>Splenocyte Viability %</u>	<u>Viable Cells/spleen</u>	<u>Thymus Viability %</u>	<u>Viable Cells/thymus</u>
Filtered Air Control (0 ppm)	21	M	92	$2.26 \times 10^8$	99	$4.05 \times 10^7$
	22	M	86	$2.45 \times 10^8$	95	$4.58 \times 10^7$
	23	M	87	$2.83 \times 10^8$	98	$4.03 \times 10^7$
	24	M	93	$3.02 \times 10^8$	100	$3.88 \times 10^7$
	25	M	94	$2.38 \times 10^8$	100	$4.50 \times 10^7$
	26	M	94	$1.40 \times 10^8$	97	$3.45 \times 10^7$
	27	M	94	$2.05 \times 10^8$	91	$3.09 \times 10^7$
	28	M	95	$2.80 \times 10^8$	94	$3.15 \times 10^7$
	29	M	96	$3.27 \times 10^8$	95	$4.16 \times 10^7$
	30	M	91	$2.56 \times 10^8$	98	$7.05 \times 10^7$
HMDS 50 ppm	81	M	92	$2.74 \times 10^8$	98	$5.73 \times 10^7$
	82	M	91	$2.48 \times 10^8$	98	$4.17 \times 10^7$
	83	M	89	$3.01 \times 10^8$	97	$6.63 \times 10^7$
	84	M	92	$2.45 \times 10^8$	94	$3.38 \times 10^7$
	85	M	94	$2.63 \times 10^8$	96	$4.39 \times 10^7$
	86	M	81	$2.24 \times 10^8$	90	$5.69 \times 10^7$
	87	M	90	$2.79 \times 10^8$	97	$6.15 \times 10^7$
	88	M	92	$2.75 \times 10^8$	97	$3.05 \times 10^7$
	89	M	92	$2.22 \times 10^8$	95	$5.51 \times 10^7$
	90	M	91	$3.80 \times 10^8$	94	$6.03 \times 10^7$
HMDS 200 ppm	141	M	94	$2.22 \times 10^8$	97	$2.38 \times 10^7$
	142	M	87	$2.50 \times 10^8$	98	$2.49 \times 10^7$
	143	M	89	$2.33 \times 10^8$	91	$4.48 \times 10^7$
	144	M	86	$2.79 \times 10^8$	93	$3.75 \times 10^7$
	145	M	88	$2.33 \times 10^8$	97	$3.45 \times 10^7$
	146	M	91	$1.93 \times 10^8$	96	$2.79 \times 10^7$
	147	M	88	$2.26 \times 10^8$	98	$5.51 \times 10^7$
	148	M	68	$1.78 \times 10^8$	100	$3.72 \times 10^7$
	149	M	94	$2.43 \times 10^8$	100	$4.52 \times 10^7$
	150	M	93	$2.25 \times 10^8$	99	$3.96 \times 10^7$
HMDS 1000 ppm	201	M	92	$2.78 \times 10^8$	96	$3.62 \times 10^7$
	202	M	92	$2.43 \times 10^8$	97	$3.48 \times 10^7$
	203	M	96	$2.38 \times 10^8$	98	$4.36 \times 10^7$
	204	M	89	$2.28 \times 10^8$	95	$3.55 \times 10^7$
	205	M	93	$2.25 \times 10^8$	94	$3.86 \times 10^7$
	206	M	90	$2.13 \times 10^8$	95	$4.84 \times 10^7$
	207	M	89	$1.47 \times 10^8$	91	$3.10 \times 10^7$
	208	M	94	$3.46 \times 10^8$	100	$3.33 \times 10^7$
	209	M	94	$3.47 \times 10^8$	94	$3.23 \times 10^7$
	210	M	89	$2.50 \times 10^8$	98	$4.62 \times 10^7$

DC Study No. - 9027  
External No. - L08710-1

DC Report No. - 1999-I0000-47623  
Security - Internal

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Lymphoid Organ Cellularity and Viability

<u>Group</u>	<u>Animal</u>	<u>Sex</u>	<u>Splenocyte Viability %</u>	<u>Viable Cells/spleen</u>	<u>Thymus Viability %</u>	<u>Viable Cells/thymus</u>
HMDS 5000 ppm	261	M	86	$2.98 \times 10^8$	100	$4.53 \times 10^7$
	262	M	87	$2.65 \times 10^8$	97	$3.30 \times 10^7$
	263	M	92	$2.50 \times 10^8$	94	$3.52 \times 10^7$
	264	M	90	$2.24 \times 10^8$	94	$2.61 \times 10^7$
	265	M	97	$2.65 \times 10^8$	99	$3.61 \times 10^7$
	266	M	91	$2.52 \times 10^8$	95	$2.43 \times 10^7$
	267	M	84	$1.98 \times 10^8$	97	$4.30 \times 10^7$
	268	M	98	$3.27 \times 10^8$	98	$3.52 \times 10^7$
	269	M	93	$3.42 \times 10^8$	98	$3.50 \times 10^7$
	270	M	92	$2.79 \times 10^8$	98	$3.19 \times 10^7$
Intra-assay Control (0 ppm)	321	M	78	$1.53 \times 10^8$	97	$3.70 \times 10^7$
	322	M	98	$1.37 \times 10^8$	90	$4.10 \times 10^7$
	323	M	95	$2.20 \times 10^8$	96	$2.99 \times 10^7$
	324	M	88	$1.89 \times 10^8$	91	$3.51 \times 10^7$
	325	M	92	$2.81 \times 10^8$	95	$4.58 \times 10^7$
	326	M	97	$1.83 \times 10^8$	97	$4.02 \times 10^7$
	327	M	92	$2.12 \times 10^8$	96	$3.96 \times 10^7$
	328	M	94	$2.42 \times 10^8$	97	$3.63 \times 10^7$
	329	M	85	$2.37 \times 10^8$	100	$3.12 \times 10^7$
	330	M	98	$2.75 \times 10^8$	98	$2.59 \times 10^7$

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
 Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Lymphoid Organ Cellularity and Viability

<u>Group</u>	<u>Animal</u>	<u>Sex</u>	<u>Splenocyte Viability %</u>	<u>Viable Cells/spleen</u>	<u>Thymus Viability %</u>	<u>Viable Cells/thymus</u>
Filtered Air Control (0 ppm)	31	F	96	$1.51 \times 10^8$	100	$3.42 \times 10^7$
	32	F	96	$1.42 \times 10^8$	98	$3.34 \times 10^7$
	33	F	95	$1.60 \times 10^8$	97	$3.52 \times 10^7$
	34	F	93	$2.09 \times 10^8$	100	$4.29 \times 10^7$
	35	F	96	$1.76 \times 10^8$	100	$4.11 \times 10^7$
	36	F	97	$2.27 \times 10^8$	98	$3.94 \times 10^7$
	37	F	91	$1.41 \times 10^8$	97	$3.92 \times 10^7$
	38	F	95	$1.68 \times 10^8$	93	$5.54 \times 10^7$
	39	F	90	$2.38 \times 10^8$	94	$4.10 \times 10^7$
	40	F	98	$2.12 \times 10^8$	90	$3.59 \times 10^7$
HMDS 50 ppm	91	F	89	$1.74 \times 10^8$	95	$3.11 \times 10^7$
	92	F	98	$1.66 \times 10^8$	97	$3.67 \times 10^7$
	93	F	96	$1.58 \times 10^8$	96	$4.48 \times 10^7$
	94	F	94	$1.70 \times 10^8$	96	$4.43 \times 10^7$
	95	F	91	$1.93 \times 10^8$	89	$5.11 \times 10^7$
	96	F	90	$2.28 \times 10^8$	96	$5.46 \times 10^7$
	97	F	92	$1.80 \times 10^8$	99	$4.60 \times 10^7$
	98	F	92	$2.25 \times 10^8$	100	$4.38 \times 10^7$
	99	F	94	$1.66 \times 10^8$	95	$3.14 \times 10^7$
	100	F	85	$2.91 \times 10^8$	100	$5.23 \times 10^7$
HMDS 200 ppm	151	F	94	$1.84 \times 10^8$	100	$4.47 \times 10^7$
	152	F	91	$1.86 \times 10^8$	92	$4.41 \times 10^7$
	153	F	93	$2.01 \times 10^8$	97	$3.79 \times 10^7$
	154	F	96	$2.02 \times 10^8$	100	$3.42 \times 10^7$
	155	F	93	$1.81 \times 10^8$	95	$3.96 \times 10^7$
	156	F	90	$1.75 \times 10^8$	98	$3.52 \times 10^7$
	157	F	87	$1.52 \times 10^8$	97	$4.81 \times 10^7$
	158	F	98	$1.80 \times 10^8$	93	$3.51 \times 10^7$
	159	F	85	$1.75 \times 10^8$	96	$5.10 \times 10^7$
	160	F	92	$2.03 \times 10^8$	98	$4.28 \times 10^7$
HMDS 1000 ppm	211	F	90	$2.20 \times 10^8$	95	$3.76 \times 10^7$
	212	F	88	$2.12 \times 10^8$	97	$4.97 \times 10^7$
	213	F	89	$1.64 \times 10^8$	98	$5.24 \times 10^7$
	214	F	94	$1.81 \times 10^8$	94	$4.42 \times 10^7$
	215	F	94	$1.74 \times 10^8$	91	$2.92 \times 10^7$
	216	F	92	$1.91 \times 10^8$	97	$4.15 \times 10^7$
	217	F	91	$1.43 \times 10^8$	93	$3.48 \times 10^7$
	218	F	88	$1.71 \times 10^8$	94	$3.12 \times 10^7$
	219	F	93	$2.99 \times 10^8$	98	$5.84 \times 10^7$
	220	F	94	$2.19 \times 10^8$	96	$2.17 \times 10^7$

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Lymphoid Organ Cellularity and Viability

<u>Group</u>	<u>Animal</u>	<u>Sex</u>	<u>Splenocyte Viability %</u>	<u>Viable Cells/spleen</u>	<u>Thymus Viability %</u>	<u>Viable Cells/thymus</u>
HMDS 5000 ppm	271	F	94	$1.40 \times 10^8$	100	$3.16 \times 10^7$
	272	F	98	$2.11 \times 10^8$	97	$5.56 \times 10^7$
	273	F	95	$1.88 \times 10^8$	100	$3.59 \times 10^7$
	274	F	88	$1.84 \times 10^8$	94	$4.08 \times 10^7$
	275	F	95	$1.81 \times 10^8$	91	$3.74 \times 10^7$
	276	F	98	$1.81 \times 10^8$	100	$4.46 \times 10^7$
	277	F	96	$1.46 \times 10^8$	93	$3.32 \times 10^7$
	278	F	92	$1.62 \times 10^8$	94	$4.06 \times 10^7$
	279	F	86	$1.61 \times 10^8$	100	$5.41 \times 10^7$
	280	F	91	$1.99 \times 10^8$	95	$4.19 \times 10^7$
Intra-assay Control (0 ppm)	331	F	93	$1.41 \times 10^8$	99	$4.57 \times 10^7$
	332	F	95	$1.39 \times 10^8$	87	$3.34 \times 10^7$
	333	F	87	$1.29 \times 10^8$	98	$5.09 \times 10^7$
	334	F	94	$1.46 \times 10^8$	93	$3.28 \times 10^7$
	335	F	100	$1.45 \times 10^8$	94	$4.18 \times 10^7$
	336	F	96	$1.50 \times 10^8$	93	$4.15 \times 10^7$
	337	F	91	$1.23 \times 10^8$	95	$5.80 \times 10^7$
	338	F	94	$1.50 \times 10^8$	96	$4.91 \times 10^7$
	339	F	89	$1.98 \times 10^8$	92	$4.35 \times 10^7$
	340	F	90	$1.45 \times 10^8$	94	$3.63 \times 10^7$

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Natural Killer Cell Activity<sup>a</sup>

<u>Group</u>	<u>Animal</u>	<u>Sex</u>	<u>100:1<sup>b</sup></u>	<u>33:1</u>	<u>11:1</u>
Filtered Air Control (0 ppm)	21	M	65.02	51.61	40.15
	22	M	67.41	34.11	48.55
	23	M	43.19	20.85	15.16
	24	M	33.37	21.15	73.62
	25	M	42.61	28.55	11.36
	26	M	55.09	31.43	1.23
	27	M	54.98	32.02	10.49
	28	M	52.76	30.85	16.15
	29	M	73.66	32.93	12.87
	30	M	100.00	33.79	19.83
HMDS 50 ppm	81	M	42.39	24.70	6.10
	82	M	67.36	31.46	10.82
	83	M	37.07	19.87	14.28
	84	M	53.05	59.79	15.46
	85	M	36.43	29.95	11.98
	86	M	33.95	29.63	11.50
	87	M	70.75	25.46	8.01
	88	M	43.28	23.74	14.48
	89	M	33.89	94.01	16.19
	90	M	32.46	100.00	12.86
HMDS 200 ppm	141	M	47.30	26.64	9.80
	142	M	63.03	41.66	12.52
	143	M	59.37	21.49	17.44
	144	M	46.27	26.11	14.90
	145	M	51.53	40.51	16.73
	146	M	75.62	40.53	12.00
	147	M	43.29	30.43	7.38
	148	M	89.47	30.34	19.69
	148	M	60.09	33.42	20.81
	150	M	54.99	36.69	14.72
	201	M	65.37	38.56	14.82
HMDS 1000 ppm	202	M	68.26	41.65	15.22
	203	M	65.05	37.28	18.95
	204	M	58.29	32.78	22.43
	205	M	37.99	32.99	17.44
	206	M	4.26	18.45	5.03
	207	M	75.48	63.59	20.36
	207	M	47.04	28.10	19.29
	208	M	54.38	27.73	19.93
	210	M	43.11	50.15	26.39

<sup>a</sup> Percent release of label ( $\text{Cr}^{51}$ ), corrected

<sup>b</sup> Effector:Target cell ratio

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Natural Killer Cell Activity<sup>a</sup>

<u>Group</u>	<u>Animal</u>	<u>Sex</u>	<u>100:1<sup>b</sup></u>	<u>33:1</u>	<u>11:1</u>
HMDS 5000 ppm	261	M	52.84	55.96	14.69
	262	M	63.18	17.14	16.19
	263	M	66.70	30.24	24.13
	264	M	50.62	27.14	22.64
	265	M	48.44	38.07	23.89
	266	M	68.43	51.81	23.18
	267	M	74.88	49.23	23.40
	268	M	64.23	35.88	19.23
	269	M	73.94	36.37	24.67
	270	M	24.35	44.68	24.81
Intra-assay Control (0 ppm)	321	M	26.70	30.31	15.99
	322	M	27.61	16.99	10.93
	323	M	31.99	30.88	17.97
	324	M	21.89	11.21	13.36
	325	M	25.74	19.25	15.55
	326	M	22.38	23.18	9.66
	327	M	26.80	19.57	15.76
	328	M	22.65	17.48	20.40
	329	M	26.73	14.72	9.81
	330	M	24.49	17.34	13.95

<sup>a</sup> Percent release of label ( $\text{Cr}^{51}$ ), corrected

<sup>b</sup> Effector:Target cell ratio

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Natural Killer Cell Activity<sup>a</sup>

<u>Group</u>	<u>Animal</u>	<u>Sex</u>	<u>100:1<sup>b</sup></u>	<u>33:1</u>	<u>11:1</u>
Filtered Air Control (0 ppm)	31	F	44.63	33.73	15.41
	32	F	53.14	36.25	15.61
	33	F	52.29	33.93	15.33
	34	F	42.49	20.44	11.27
	35	F	24.20	13.14	6.75
	36	F	25.47	14.52	2.64
	37	F	32.99	24.45	6.80
	38	F	33.10	19.73	7.75
	39	F	25.74	13.92	7.56
	40	F	23.94	20.83	8.42
HMDS 50 ppm	91	F	28.04	23.03	8.45
	92	F	23.52	18.34	6.41
	93	F	37.28	26.93	7.95
	94	F	32.64	14.54	9.68
	95	F	33.48	20.19	10.12
	96	F	35.77	24.85	9.66
	97	F	42.92	21.20	12.77
	98	F	46.52	21.71	15.04
	99	F	49.60	23.69	24.28
	100	F	30.18	13.51	10.98
HMDS 200 ppm	151	F	36.75	21.57	5.76
	152	F	47.11	21.55	6.66
	153	F	46.57	24.85	11.77
	154	F	42.69	24.90	8.56
	155	F	32.00	27.42	8.75
	156	F	31.85	18.37	5.79
	157	F	36.28	19.02	6.14
	158	F	36.12	16.09	9.46
	159	F	32.25	12.71	7.15
	160	F	37.66	25.40	10.35
HMDS 1000 ppm	211	F	42.71	25.49	8.38
	212	F	45.04	25.46	7.23
	213	F	42.01	18.30	9.43
	214	F	46.07	22.71	13.41
	215	F	37.33	25.41	11.55
	216	F	30.89	27.62	4.86
	217	F	42.66	22.49	9.05
	218	F	44.23	19.60	7.85
	219	F	32.94	13.66	3.53
	220	F	40.56	26.46	14.33

<sup>a</sup> Percent release of label ( $\text{Cr}^{51}$ ), corrected

<sup>b</sup> Effector:Target cell ratio

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Natural Killer Cell Activity<sup>a</sup>

<u>Group</u>	<u>Animal</u>	<u>Sex</u>	<u>100:1<sup>b</sup></u>	<u>33:1</u>	<u>11:1</u>
HMDS 5000 ppm	271	F	47.29	31.85	9.42
	272	F	38.69	23.53	7.83
	273	F	46.44	23.41	12.45
	274	F	42.40	18.17	10.19
	275	F	40.38	25.46	15.20
	276	F	47.05	30.67	13.92
	277	F	49.05	29.81	13.33
	278	F	49.79	25.95	14.38
	279	F	42.31	17.96	9.20
	280	F	34.94	20.15	10.42
Intra-assay Control (0 ppm)	331	F	8.65	6.76	0.00
	332	F	8.62	7.64	3.88
	333	F	18.51	7.26	6.85
	334	F	18.29	7.61	8.29
	335	F	9.73	7.20	4.42
	336	F	11.36	7.23	2.52
	337	F	20.05	9.54	3.44
	338	F	18.31	5.60	7.43
	339	F	15.27	8.69	7.45
	340	F	13.43	13.88	7.96

<sup>a</sup> Percent release of label ( $\text{Cr}^{51}$ ), corrected

<sup>b</sup> Effector:Target cell ratio

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Antibody-Forming Cell Assay

<u>Group</u>	<u>Animal</u>	<u>Sex</u>	<u>Body Weight (g)</u>	<u>Spleen Weight (g)</u>	<u>Splenocyte Viability (%)</u>	<u>Viable Cells/ml</u>	<u>AFC/ 1x10<sup>6</sup> Cells</u>	<u>AFC/ Spleen</u>
Filtered Air Control (0 ppm)	1	M	247	0.5371	94	3.54x10 <sup>7</sup>	579	2.05x10 <sup>5</sup>
	2	M	237	0.5163	88	2.58x10 <sup>7</sup>	485	1.25x10 <sup>5</sup>
	3	M	236	0.5552	85	3.41x10 <sup>7</sup>	688	2.35x10 <sup>5</sup>
	4	M	229	0.4858	95	3.35x10 <sup>7</sup>	417	1.40x10 <sup>5</sup>
	5	M	230	0.4647	90	3.26x10 <sup>7</sup>	0	0.00
	6	M	237	0.5469	94	3.30x10 <sup>7</sup>	546	1.80x10 <sup>5</sup>
	7	M	239	0.7505	93	4.53x10 <sup>7</sup>	829	3.75x10 <sup>5</sup>
	8	M	263	0.6024	97	3.00x10 <sup>7</sup>	383	1.15x10 <sup>5</sup>
	9	M	245	0.5379	94	3.80x10 <sup>7</sup>	802	3.05x10 <sup>5</sup>
	10	M	229	0.5104	96	2.55x10 <sup>7</sup>	568	1.45x10 <sup>5</sup>
HMDS (50 ppm)	61	M	218	0.4949	92	2.72x10 <sup>7</sup>	791	2.15x10 <sup>5</sup>
	62	M	214	0.5123	93	3.83x10 <sup>7</sup>	0	0.00
	63	M	232	0.4655	90	2.32x10 <sup>7</sup>	432	1.00x10 <sup>5</sup>
	64	M	249	0.5730	89	2.61x10 <sup>7</sup>	326	8.50x10 <sup>4</sup>
	65	M	259	0.5414	96	3.51x10 <sup>7</sup>	342	1.20x10 <sup>5</sup>
	66	M	282	0.6012	98	3.78x10 <sup>7</sup>	489	1.85x10 <sup>5</sup>
	67	M	243	0.5390	100	1.45x10 <sup>7</sup>	276	4.00x10 <sup>4</sup>
	68	M	248	0.4932	95	2.91x10 <sup>7</sup>	258	7.50x10 <sup>4</sup>
	69	M	226	0.5011	95	2.63x10 <sup>7</sup>	494	1.30x10 <sup>5</sup>
	70	M	252	0.5277	96	3.48x10 <sup>7</sup>	646	2.25x10 <sup>5</sup>
HMDS (200 ppm)	121	M	232	0.5145	99	3.03x10 <sup>7</sup>	331	1.00x10 <sup>5</sup>
	122	M	252	0.5609	100	3.21x10 <sup>7</sup>	1355	4.35x10 <sup>5</sup>
	123	M	254	0.5901	95	3.94x10 <sup>7</sup>	495	1.95x10 <sup>5</sup>
	124	M	215	0.5585	94	2.74x10 <sup>7</sup>	1058	2.90x10 <sup>5</sup>
	125	M	254	0.5449	89	1.30x10 <sup>7</sup>	844	1.10x10 <sup>5</sup>
	126	M	244	0.5100	88	3.11x10 <sup>7</sup>	514	1.60x10 <sup>5</sup>
	127	M	242	0.5216	83	2.77x10 <sup>7</sup>	271	7.50x10 <sup>4</sup>
	128	M	260	0.5495	90	1.32x10 <sup>7</sup>	948	1.25x10 <sup>5</sup>
	129	M	229	0.5041	94	1.33x10 <sup>7</sup>	301	4.00x10 <sup>4</sup>
	130	M	243	0.6315	92	4.20x10 <sup>7</sup>	202	8.50x10 <sup>4</sup>

**Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
 Whole-Body Inhalation Exposure in Fischer 344 Rats**

**Appendix B - Individual Animal Data**

**Antibody-Forming Cell Assay**

<u>Group</u>	<u>Animal</u>	<u>Sex</u>	<u>Body Weight (g)</u>	<u>Spleen Weight (g)</u>	<u>Splenocyte Viability (%)</u>	<u>Viable Cells/ml</u>	<u>AFC/1x10<sup>6</sup> Cells</u>	<u>AFC/Spleen</u>
HMDS (1000 ppm)	181	M	253	0.6148	93	3.14x10 <sup>7</sup>	509	1.60x10 <sup>5</sup>
	182	M	254	0.6809	92	3.06x10 <sup>7</sup>	1470	4.50x10 <sup>5</sup>
	183	M	276	0.6105	94	3.80x10 <sup>7</sup>	0	0.00
	184	M	228	0.5319	98	2.67x10 <sup>7</sup>	131	3.50x10 <sup>4</sup>
	185	M	248	0.5429	91	2.91x10 <sup>7</sup>	395	1.15x10 <sup>5</sup>
	186	M	246	0.5789	93	1.40x10 <sup>7</sup>	677	9.50x10 <sup>4</sup>
	187	M	250	0.5831	90	3.22x10 <sup>7</sup>	217	7.00x10 <sup>4</sup>
	188	M	258	0.6424	97	3.49x10 <sup>7</sup>	401	1.40x10 <sup>5</sup>
	189	M	227	0.5094	95	2.77x10 <sup>7</sup>	415	1.15x10 <sup>5</sup>
	190	M	251	0.5435	92	3.47x10 <sup>7</sup>	519	1.80x10 <sup>5</sup>
HMDS (5000 ppm)	241	M	232	0.7049	68	2.07x10 <sup>7</sup>	1475	3.05x10 <sup>5</sup>
	242	M	251	0.6242	94	2.98x10 <sup>7</sup>	570	1.70x10 <sup>5</sup>
	243	M	235	0.5761	--	--	--	1.05x10 <sup>5</sup>
	244	M	257	0.6418	94	2.56x10 <sup>7</sup>	605	1.55x10 <sup>5</sup>
	245	M	228	0.5363	91	2.99x10 <sup>7</sup>	3123	9.35x10 <sup>5</sup>
	246	M	240	0.5383	91	1.21x10 <sup>7</sup>	661	8.00x10 <sup>4</sup>
	247	M	260	0.6229	88	2.41x10 <sup>7</sup>	1574	3.80x10 <sup>5</sup>
	248	M	229	0.5333	94	1.48x10 <sup>7</sup>	438	6.50x10 <sup>4</sup>
	249	M	241	0.6082	95	2.52x10 <sup>7</sup>	1072	2.70x10 <sup>5</sup>
	250	M	244	0.5519	95	2.62x10 <sup>7</sup>	1010	2.65x10 <sup>5</sup>
Intra-assay	301	M	236	0.2853	98	4.80x10 <sup>6</sup>	0	0.00
Control	302	M	232	0.3383	97	6.33x10 <sup>6</sup>	0	0.00
(0 ppm)	303	M	226	0.2658	93	3.40x10 <sup>6</sup>	0	0.00
	304	M	201	0.2632	94	3.75x10 <sup>6</sup>	0	0.00
	305	M	218	0.2612	98	4.12x10 <sup>6</sup>	0	0.00
	306	M	204	0.3349	97	4.21x10 <sup>6</sup>	0	0.00
	307	M	236	0.2903	92	3.68x10 <sup>6</sup>	0	0.00
	308	M	222	0.2756	95	4.11x10 <sup>6</sup>	0	0.00
	309	M	200	0.2602	96	3.55x10 <sup>6</sup>	0	0.00
	310	M	230	0.3350	96	4.88x10 <sup>6</sup>	0	0.00

-- = No data, undeterminable (all cells appeared non-viable)

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Antibody-Forming Cell Assay

<u>Group</u>	<u>Animal</u>	<u>Sex</u>	<u>Body Weight (g)</u>	<u>Spleen Weight (g)</u>	<u>Splenocyte Viability (%)</u>	<u>Viable Cells/ml</u>	<u>AFC/ 1x10<sup>6</sup> Cells</u>	<u>AFC /Spleen</u>
Filtered Air	11	F	163	0.3810	86	2.15x10 <sup>7</sup>	210	4.50x10 <sup>4</sup>
Control (0 ppm)	12	F	161	0.3856	90	2.24x10 <sup>7</sup>	223	5.00x10 <sup>4</sup>
	13	F	156	0.3726	94	2.11x10 <sup>7</sup>	166	3.50x10 <sup>4</sup>
	14	F	166	0.4031	93	2.08x10 <sup>7</sup>	408	8.50x10 <sup>4</sup>
	15	F	161	0.3996	93	2.28x10 <sup>7</sup>	373	8.50x10 <sup>4</sup>
	16	F	171	0.4005	95	2.31x10 <sup>7</sup>	519	1.20x10 <sup>5</sup>
	17	F	154	0.3711	98	1.55x10 <sup>7</sup>	388	6.00x10 <sup>4</sup>
	18	F	160	0.3824	98	2.34x10 <sup>7</sup>	555	1.30x10 <sup>5</sup>
	19	F	169	0.3852	94	1.92x10 <sup>7</sup>	417	8.00x10 <sup>4</sup>
	20	F	161	0.4230	93	2.47x10 <sup>7</sup>	283	7.00x10 <sup>4</sup>
HMDS (50 ppm)	71	F	142	0.3748	97	1.96x10 <sup>7</sup>	307	6.00x10 <sup>4</sup>
	72	F	159	0.3953	94	2.98x10 <sup>7</sup>	0	0.00
	73	F	158	0.3953	97	2.01x10 <sup>7</sup>	522	1.05x10 <sup>5</sup>
	74	F	167	0.3867	96	2.10x10 <sup>7</sup>	405	8.50x10 <sup>4</sup>
	75	F	149	0.3476	95	2.08x10 <sup>7</sup>	72	1.50x10 <sup>4</sup>
	76	F	158	0.4416	92	1.77x10 <sup>7</sup>	255	4.50x10 <sup>4</sup>
	77	F	159	0.3666	98	2.16x10 <sup>7</sup>	254	5.50x10 <sup>4</sup>
	78	F	161	0.4156	97	1.98x10 <sup>7</sup>	633	1.25x10 <sup>5</sup>
	79	F	160	0.4151	95	1.88x10 <sup>7</sup>	346	6.50x10 <sup>4</sup>
	80	F	158	0.4269	93	2.25x10 <sup>7</sup>	356	8.00x10 <sup>4</sup>
HMDS (200 ppm)	131	F	154	0.3909	98	1.95x10 <sup>7</sup>	282	5.50x10 <sup>4</sup>
	132	F	156	0.3916	93	1.49x10 <sup>7</sup>	1037	1.55x10 <sup>5</sup>
	133	F	148	0.3784	92	1.80x10 <sup>7</sup>	389	7.00x10 <sup>4</sup>
	134	F	160	0.3981	98	1.89x10 <sup>7</sup>	80	1.50x10 <sup>4</sup>
	135	F	170	0.4345	95	1.97x10 <sup>7</sup>	203	4.00x10 <sup>4</sup>
	136	F	163	0.4280	95	2.13x10 <sup>7</sup>	94	2.00x10 <sup>4</sup>
	137	F	167	0.4290	88	1.76x10 <sup>7</sup>	142	2.50x10 <sup>4</sup>
	138	F	160	0.3942	95	2.08x10 <sup>7</sup>	241	5.00x10 <sup>4</sup>
	139	F	151	0.4027	100	1.88x10 <sup>7</sup>	345	6.50x10 <sup>4</sup>
	140	F	158	0.4173	96	1.59x10 <sup>7</sup>	315	5.00x10 <sup>4</sup>

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
 Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Antibody-Forming Cell Assay

<u>Group</u>	<u>Animal</u>	<u>Sex</u>	<u>Body Weight (g)</u>	<u>Spleen Weight (g)</u>	<u>Splenocyte Viability (%)</u>	<u>Viable Cells/ml</u>	<u>AFC/ 1x10<sup>6</sup> Cells</u>	<u>AFC /Spleen</u>
HMDS (1000 ppm)	191	F	155	0.3737	97	1.58x10 <sup>7</sup>	222	3.50x10 <sup>4</sup>
	192	F	171	0.4092	93	1.62x10 <sup>7</sup>	0	0.00
	193	F	161	0.4408	92	2.07x10 <sup>7</sup>	193	4.00x10 <sup>4</sup>
	194	F	163	0.4093	98	1.69x10 <sup>7</sup>	89	1.50x10 <sup>4</sup>
	195	F	165	0.3854	98	2.04x10 <sup>7</sup>	319	6.50x10 <sup>4</sup>
	196	F	155	0.3911	96	2.09x10 <sup>7</sup>	383	8.00x10 <sup>4</sup>
	197	F	143	0.3907	97	2.00x10 <sup>7</sup>	375	7.50x10 <sup>4</sup>
	198	F	157	0.4302	96	2.00x10 <sup>7</sup>	275	5.50x10 <sup>4</sup>
	199	F	163	0.4363	97	2.10x10 <sup>7</sup>	618	1.30x10 <sup>5</sup>
	200	F	159	0.4809	94	2.20x10 <sup>7</sup>	182	4.00x10 <sup>4</sup>
HMDS (5000 ppm)	251	F	163	0.4217	94	1.84x10 <sup>7</sup>	244	4.50x10 <sup>4</sup>
	252	F	155	0.4054	95	1.68x10 <sup>7</sup>	477	8.00x10 <sup>4</sup>
	253	F	153	0.3861	100	1.73x10 <sup>7</sup>	231	4.00x10 <sup>4</sup>
	254	F	159	0.4138	98	1.85x10 <sup>7</sup>	405	7.50x10 <sup>4</sup>
	255	F	159	0.4186	97	1.89x10 <sup>7</sup>	264	5.00x10 <sup>4</sup>
	256	F	156	0.4097	98	1.88x10 <sup>7</sup>	319	6.00x10 <sup>4</sup>
	257	F	157	0.4150	98	1.89x10 <sup>7</sup>	528	1.00x10 <sup>5</sup>
	258	F	152	0.4339	93	1.74x10 <sup>7</sup>	1377	2.40x10 <sup>5</sup>
	259	F	161	0.4489	100	2.27x10 <sup>7</sup>	462	1.05x10 <sup>5</sup>
	260	F	155	0.4018	97	1.22x10 <sup>7</sup>	0	1.00e-04
Intra-assay	311	F	142	0.1564	92	3.05x10 <sup>6</sup>	0	0.00
Control (0 ppm)	312	F	144	0.2293	98	4.01x10 <sup>6</sup>	0	0.00
	313	F	150	0.2419	95	4.19x10 <sup>6</sup>	0	0.00
	314	F	143	0.2227	97	3.51x10 <sup>6</sup>	0	0.00
	315	F	153	0.2384	98	3.38x10 <sup>6</sup>	0	0.00
	316	F	149	0.2459	97	5.25x10 <sup>6</sup>	0	0.00
	317	F	143	0.2607	98	4.14x10 <sup>6</sup>	0	0.00
	318	F	138	0.2101	96	3.04x10 <sup>6</sup>	0	0.00
	319	F	150	0.2491	98	5.70x10 <sup>6</sup>	0	0.00
	320	F	158	0.2641	100	4.44x10 <sup>6</sup>	0	0.00

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
 Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data  
 Spleen Lymphocyte Distribution

Group	Animal	Sex	Total Lymphocytes - Percent Cell Type									
			CD3+ <sup>a</sup> Total FITC	NK	CD8± Total PE	CD3+ CD8-	CD45R+ B Cells	CD4+ CD45R+	CD4+ Total FITC	Mono & MΦ <sup>b</sup> Total FITC	CD4+ CD45R-	
Filtered Air	41	M	43.1	3.9	19.6	23.6	53.9	47.2	5.2	27.7	23.2	
Control (0 ppm)	42	M	27.3	4.2	13.7	13.6	57.2	51.4	4.5	22.7	18.2	
	43	F	39.5	3.0	18.1	21.4	50.1	44.5	4.5	25.6	21.1	
	44	F	32.1	3.3	15.5	16.6	56.1	49.4	6.2	22.6	16.4	
	45	M	36.8	4.4	16.7	18.6	58.8	53.1	3.9	25.9	22.3	
	46	M	34.5	3.7	16.6	17.9	55.8	52.4	3.7	24.3	20.8	
	47	F	29.7	3.6	13.7	16.0	54.2	49.8	3.3	22.7	19.4	
	48	F	40.0	3.8	19.2	20.8	51.2	46.8	4.2	24.3	20.1	
	49	M	34.1	3.6	15.6	18.4	51.7	44.2	3.8	25.6	21.8	
	50	M	29.1	4.3	13.6	15.6	44.9	39.9	3.9	23.1	19.2	
	51	F	37.6	3.4	18.1	19.5	47.7	45.2	3.6	26.3	22.7	
	52	F	33.8	3.2	17.9	15.9	57.1	51.6	4.4	23.5	19.1	
	53	M	33.7	3.1	15.0	17.9	61.4	56.5	4.4	23.2	19.6	
	54	M	31.9	3.8	15.0	16.9	60.2	56.1	3.5	24.3	19.4	
	55	F	33.7	4.7	16.4	17.3	56.6	52.8	2.9	23.1	20.2	
	56	F	34.2	3.2	16.8	17.4	57.0	53.8	3.6	24.5	19.3	
	57	M	35.9	4.5	16.2	19.6	57.7	52.8	4.0	24.3	21.7	
	58	M	32.7	3.4	14.5	18.2	56.1	52.0	3.7	24.4	20.7	
	59	F	35.5	2.7	16.1	19.4	51.1	46.0	4.4	25.4	21.0	
	60	F	35.6	3.2	16.3	19.1	52.9	48.5	3.7	23.7	20.0	

<sup>a</sup> Cell surface marker: + = marker present; - = marker absent  
<sup>b</sup> Mono & MΦ = Monocytes and Macrophages

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
 Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Spleen Lymphocyte Distribution

Group	Animal	Sex	Total Lymphocytes - Percent Cell Type								CD4+ CD45R+	CD4+ CD45R-	CD4+ Mono & MΦ <sup>b</sup>	CD4+ CD45R-
			CD3+ <sup>a</sup> Total FITC	NK	CD8+ CD3+	CD45R+ Total PE	B Cells	CD45R+ CD45R-	Total FITC					
HMDS (50 ppm)	101	M	39.3	5.0	17.6	21.7	53.9	47.2	5.5	25.7	24.0	26.9	24.0	20.4
	102	M	36.4	3.0	16.5	19.9	56.9	51.3	4.6	19.4	21.4	22.6	21.4	19.4
	103	F	41.6	3.2	19.7	21.9	53.2	48.4	5.5	26.9	22.6	24.8	24.8	20.9
	104	F	33.2	4.4	17.3	15.9	56.2	49.3	5.2	17.4	20.9	25.3	25.3	20.6
	105	M	33.9	4.0	15.1	18.0	57.2	53.5	4.0	24.8	25.3	27.5	27.5	24.6
	106	M	31.7	4.0	14.1	17.6	58.7	52.6	4.7	23.9	27.4	27.5	27.4	23.9
	107	F	36.4	3.7	17.7	18.7	51.7	46.9	3.5	21.3	25.2	25.5	25.2	21.3
	108	F	35.5	3.1	16.4	19.1	51.3	45.5	3.9	21.3	24.6	24.8	24.6	21.0
	109	M	41.4	3.8	18.3	21.3	47.8	40.2	3.5	24.6	24.6	24.6	24.6	21.3
	110	M	37.0	6.0	18.5	18.5	45.0	39.2	3.3	22.9	22.4	22.4	22.4	18.5
	111	F	28.5	3.8	12.9	15.6	52.7	45.1	3.9	18.8	24.1	24.1	24.1	18.8
	112	F	30.7	3.4	15.6	15.1	57.1	49.7	5.3	21.0	25.0	25.0	25.0	21.0
	113	M	37.0	3.3	16.9	19.1	58.3	54.1	4.5	20.2	22.9	22.9	22.9	19.3
	114	M	32.1	4.2	14.3	17.8	59.1	55.3	3.5	19.3	24.4	24.4	24.4	18.5
	115	F	34.1	3.5	16.9	17.2	58.1	54.1	3.6	20.4	22.9	22.9	22.9	20.5
	116	F	33.3	3.4	16.5	16.8	55.4	50.0	4.3	20.5	24.3	24.3	24.3	20.2
	117	M	36.6	3.8	16.2	20.5	57.5	53.2	4.0	22.5	24.4	24.4	24.4	21.0
	118	M	28.4	4.0	12.4	16.0	56.6	52.2	4.0	21.0	23.8	23.8	23.8	18.5
	119	F	33.6	2.6	15.3	18.3	51.8	47.4	3.4	24.4	22.5	22.5	22.5	18.5
	120	F	35.0	2.4	15.8	19.2	51.2	46.3	3.3	20.5	23.8	23.8	23.8	20.5

<sup>a</sup> Cell surface marker: + = marker present; - = marker absent  
<sup>b</sup> Mono & MΦ = Monocytes and Macrophages

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
 Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Spleen Lymphocyte Distribution

Group	Animal	Sex	Total Lymphocytes - Percent Cell Type									
			CD3+ <sup>a</sup>	Total FITC	NK	CD8+	CD3+	CD45R+	CD4+	CD45R+ B Cells	CD4+	Mono & MΦ <sup>b</sup>
HMDS (200 ppm)	161	M	40.2	3.6	17.3	23.1	56.9	51.2	5.2	26.4	21.6	
	162	M	33.8	4.8	16.6	17.2	55.2	50.0	4.8	24.6	19.8	
	163	F	43.6	3.5	20.9	22.7	51.6	46.6	4.8	26.2	21.4	
	164	F	46.2	2.9	22.7	23.5	49.4	44.5	4.7	28.6	23.9	
	165	M	30.6	4.4	13.1	16.7	60.1	55.2	3.4	22.5	19.1	
	166	M	30.9	4.5	14.3	16.6	58.8	53.6	4.1	25.0	20.9	
	167	F	23.8	2.4	10.7	13.1	42.1	36.9	3.6	20.1	16.5	
	168	F	33.4	3.4	15.0	18.4	53.6	48.7	4.5	23.6	19.1	
	169	M	33.7	4.0	14.3	18.1	50.3	43.8	3.2	23.5	20.8	
	170	M	42.6	3.8	20.1	22.5	54.2	49.8	3.3	27.0	23.7	
	171	F	37.0	2.5	17.1	19.9	44.5	41.3	3.6	25.9	22.3	
	172	F	27.9	4.1	13.6	14.3	57.2	52.9	3.7	20.1	16.4	
	173	M	33.3	3.2	13.8	18.9	59.0	54.0	4.7	23.5	19.1	
	174	M	30.1	3.0	14.4	15.7	59.8	55.2	4.0	22.8	19.4	
	175	F	35.9	4.2	16.5	19.4	58.0	54.7	3.1	23.2	20.1	
	176	F	34.7	2.7	15.9	18.8	54.2	49.5	4.1	26.2	22.2	
	177	M	34.1	3.1	15.2	18.5	56.8	52.9	3.9	23.2	19.4	
	178	M	33.5	3.1	14.2	19.3	54.7	50.4	3.2	23.0	19.8	
	179	F	35.9	3.1	16.6	19.3	53.3	48.3	3.9	24.5	20.6	
	180	F	33.2	3.4	15.4	17.8	52.6	47.5	3.9	23.7	19.8	

<sup>a</sup> Cell surface marker: + = marker present; - = marker absent  
<sup>b</sup> Mono & MΦ = Monocytes and Macrophages

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
 Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Spleen Lymphocyte Distribution

Group	Animal	Sex	Total Lymphocytes - Percent Cell Type							
			CD3+*	Total FITC	NK	CD8+	CD3+	CD45R+	CD4+	CD4+ Mono & MΦ <sup>b</sup>
HMDS (1000 ppm)	221	M	38.6	4.0	18.4	21.0	55.7	50.1	5.8	25.8
	222	M	39.5	3.5	18.7	20.8	53.0	47.5	4.8	25.9
	223	F	37.4	1.6	17.3	20.1	48.8	43.8	4.8	24.6
	224	F	36.3	3.7	16.0	20.3	48.0	42.4	4.9	25.0
	225	M	33.9	3.7	15.4	17.7	58.4	53.7	3.4	22.4
	226	M	32.6	3.7	15.6	17.0	55.1	51.0	3.8	24.2
	227	F	33.4	2.8	15.1	18.3	52.1	45.5	5.4	29.6
	228	F	33.4	2.8	15.2	18.2	52.1	45.5	5.0	26.0
	229	M	36.5	5.7	15.9	19.2	46.3	39.1	2.9	26.0
	230	M	32.2	4.0	15.1	17.1	56.5	51.8	3.9	24.4
	231	F	31.7	3.7	14.8	16.9	46.6	39.3	2.9	23.6
	232	F	30.1	4.0	14.3	15.8	55.6	50.7	4.6	22.9
	233	M	34.6	3.3	16.5	17.6	58.3	52.8	5.2	24.2
	234	M	27.5	4.0	12.9	14.6	59.7	55.8	3.5	23.4
	235	F	38.2	3.4	17.3	20.9	54.7	50.5	3.8	27.1
	236	F	34.2	2.1	16.4	17.8	52.9	47.4	4.0	25.1
	237	M	33.1	3.8	14.4	18.3	57.8	53.5	3.5	23.0
	238	M	32.6	3.9	14.8	17.8	56.8	50.9	4.6	23.8
	239	F	42.5	2.7	20.8	21.7	50.0	47.0	2.9	26.4
	240	F	32.1	3.0	14.4	17.7	53.0	48.0	4.3	23.8

\* Cell surface marker: + = marker present; - = marker absent  
 b Mono & MΦ = Monocytes and Macrophages

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
 Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Spleen Lymphocyte Distribution

Group	Animal	Sex	Total FITC	Total Lymphocytes - Present Cell Type								CD4+ CD45R-	CD4+ CD45R+	CD4+ Mono & MΦ <sup>b</sup>	CD4+ Total FITC
				CD3+ <sup>a</sup>	CD8+	NK	CD3+	CD8+	Total PE	B Cells	CD45R+				
HMDS (5000 ppm)	281	M	36.5	4.1	18.1	18.0	54.9	49.4	4.4	24.9	20.8				
	282	M	34.6	4.7	16.6	18.0	54.9	48.9	5.4	24.5	19.1				
	283	F	39.2	1.5	19.2	20.0	52.1	46.3	4.7	26.2	21.5				
	284	F	39.3	3.8	18.0	21.3	51.6	47.3	3.8	23.3	19.5				
	285	M	33.2	3.8	14.7	17.0	57.6	53.1	3.5	22.9	19.7				
	286	M	29.4	3.8	13.9	15.5	56.7	51.6	4.0	22.2	18.2				
	287	F	35.4	3.8	16.4	19.0	54.9	51.1	3.3	24.2	20.9				
	288	F	39.2	3.7	18.5	20.8	47.9	42.9	3.7	24.3	20.6				
	289	M	35.5	1.9	17.0	17.7	49.3	42.8	2.7	23.0	20.2				
	290	M	29.4	3.7	14.8	14.6	54.5	48.7	4.8	24.4	19.6				
	291	F	33.1	4.3	15.4	17.8	46.5	38.6	3.6	25.5	21.9				
	292	F	39.6	3.1	18.7	20.9	52.1	48.1	3.6	25.2	21.6				
	293	M	33.8	3.5	14.7	17.7	59.1	54.0	4.0	23.2	19.6				
	294	M	35.6	2.2	17.2	18.4	59.2	53.6	4.3	20.8	20.2				
	295	F	34.6	3.3	17.1	17.5	55.0	50.3	4.1	23.8	20.0				
	296	F	32.1	2.9	15.3	16.8	56.5	52.0	4.0	23.8	19.8				
	297	M	31.9	3.9	13.1	18.3	56.9	53.2	2.5	21.8	19.6				
	298	M	33.7	3.5	14.6	18.8	56.3	52.4	3.8	22.2	18.4				
	299	F	36.2	3.8	15.9	20.3	50.8	46.0	3.4	25.3	21.9				
	300	F	34.1	4.5	14.4	19.7	51.9	47.0	3.9	25.2	21.3				

<sup>a</sup> Cell surface marker: + = marker present; - = marker absent  
<sup>b</sup> Mono & MΦ = Monocytes and Macrophages

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
 Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data  
 Spleen Lymphocyte Distribution

Group	Animal	Sex	Small Lymphocytes - Percent Cell Type										
			CD3+ <sup>a</sup>	Total FITC	NK	CD8+	CD8-	CD3+	CD45R+	CD45R- B Cells	CD4+ Total FITC	Mono & MΦ <sup>b</sup>	CD4+ CD45R-
Filtered Air	41	M	47.8	4.3	21.2	26.4	54.0	49.7	3.2	28.5	26.2		
Control (0 ppm)	42	M	31.0	5.1	16.1	14.9	56.5	53.1	2.2	24.6	22.4		
	43	F	45.0	3.5	20.9	24.1	50.3	46.3	2.9	28.7	25.8		
	44	F	37.8	3.8	20.0	17.8	54.6	50.8	3.4	24.9	21.5		
	45	M	42.9	4.7	17.6	24.1	58.1	54.4	2.1	27.1	25.7		
	46	M	42.6	3.7	20.1	22.5	55.5	53.6	2.2	27.6	25.4		
	47	F	36.0	3.5	16.0	20.0	55.2	52.9	1.3	24.9	22.6		
	48	F	48.3	4.5	23.5	24.8	50.3	49.0	1.9	27.1	25.2		
	49	M	43.2	2.5	17.8	25.5	50.8	46.8	1.9	28.3	26.3		
	50	M	40.0	4.1	18.1	21.9	45.9	42.5	2.4	28.5	26.1		
	51	F	45.4	2.8	21.2	24.3	46.3	45.9	1.6	29.6	28.0		
	52	F	41.4	3.0	21.2	20.2	55.5	52.5	2.0	26.4	24.4		
	53	M	39.5	3.5	17.8	20.6	59.8	56.4	2.8	26.3	24.5		
	54	M	36.7	4.6	17.4	19.3	58.4	57.0	1.7	25.6	23.9		
	55	F	40.0	5.6	19.7	20.3	56.1	54.6	1.2	25.8	24.6		
	56	F	40.2	3.4	19.2	21.0	55.1	53.9	2.1	26.9	24.8		
	57	M	41.9	5.2	18.9	22.6	56.6	53.8	2.1	26.4	25.7		
	58	M	38.1	4.1	17.2	20.9	56.3	53.8	2.4	26.9	24.5		
	59	F	42.9	3.1	19.5	23.4	52.4	49.4	2.7	27.9	25.2		
	60	F	41.5	4.0	19.7	21.7	53.6	52.5	1.5	25.8	24.3		

<sup>a</sup> Cell surface marker: + = marker present; - = marker absent  
<sup>b</sup> Mono & MΦ = Monocytes and Macrophages

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
 Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Spleen Lymphocyte Distribution

Group	Animal	Sex	Total FITC	Small Lymphocytes - Percent Cell Type						CD4+ CD45R+	CD4+ B Cells	CD45R+ CD45R±	CD4+ Total FITC	Mono & MΦ <sup>b</sup>	CD4+ CD45R-
				CD3+ <sup>a</sup>	CD3+ CD8+	CD8+	Total PE	CD45R+	CD45R+						
HMDS (50 ppm)	101	M	45.1	5.5	19.7	25.4	54.7	49.9	2.7	27.2	24.4				
	102	M	42.1	3.8	19.5	22.6	56.7	53.9	2.8	26.7	23.9				
	103	F	48.0	3.5	22.7	25.3	53.3	50.3	3.7	30.0	26.3				
	104	F	39.5	5.3	21.2	18.3	55.8	51.7	2.7	24.8	22.1				
	105	M	38.5	3.9	15.9	22.0	57.1	56.6	1.7	25.8	24.6				
	106	M	38.7	4.5	17.6	21.1	56.3	53.7	1.9	28.0	26.1				
	107	F	43.3	3.3	19.1	24.2	51.2	47.9	1.8	30.0	28.2				
	108	F	44.0	3.7	21.0	23.0	48.6	46.7	1.3	28.7	27.4				
	109	M	47.5	3.7	19.6	26.9	47.4	41.7	1.5	30.0	29.5				
	110	M	45.9	6.1	22.0	24.0	47.6	44.0	2.0	28.9	26.9				
	111	F	36.6	3.8	16.0	20.6	50.5	47.0	1.3	25.5	24.2				
	112	F	37.3	3.6	19.2	18.1	53.7	50.1	2.2	27.4	25.2				
	113	M	42.4	3.5	18.6	23.0	56.4	55.0	2.3	27.4	25.7				
	114	M	37.2	5.2	16.3	20.9	56.6	55.4	1.7	26.4	24.7				
	115	F	40.8	3.6	19.9	20.9	57.5	54.6	2.2	27.7	25.5				
	116	F	39.5	4.1	19.6	19.9	53.7	51.0	1.9	27.8	25.9				
	117	M	41.6	4.4	18.4	23.2	56.3	54.1	2.2	27.3	25.7				
	118	M	33.9	5.3	15.6	18.3	56.6	54.8	2.0	25.0	23.0				
	119	F	40.0	3.0	18.8	21.2	52.8	50.5	1.8	27.0	25.2				
	120	F	41.0	2.9	19.2	21.8	51.1	48.8	1.4	26.5	25.1				

<sup>a</sup> Cell surface marker: + = marker present; - = marker absent  
<sup>b</sup> Mono & MΦ = Monocytes and Macrophages

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
 Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Spleen Lymphocyte Distribution

Group	Animal	Sex	Total FITC	CD3+ <sup>a</sup>	Small Lymphocytes - Percent Cell Type						
					CD8+	Total PE	CD45R+	CD45R- B Cells	CD4+	CD45R+ Total FITC	Mono & MΦ <sup>b</sup>
<b>HMDS (200 ppm)</b>											
161	M	45.6	4.0	19.6	26.1	56.2	53.1	3.2	28.0	25.4	
162	M	41.5	5.9	20.8	20.7	53.3	50.1	3.1	28.3	25.2	
163	F	48.6	3.3	23.5	25.1	51.9	49.6	2.9	28.4	25.5	
164	F	50.3	3.4	24.7	25.6	49.4	46.3	3.1	31.4	28.3	
165	M	35.9	4.4	14.3	20.7	58.7	56.4	1.7	24.3	23.2	
166	M	40.7	5.4	18.2	22.5	54.3	52.2	1.9	29.4	27.5	
167	F	32.3	2.9	14.5	17.8	41.8	39.9	1.1	20.6	19.5	
168	F	42.7	3.8	20.1	22.6	52.5	51.2	1.9	26.9	25.0	
169	M	41.8	3.8	17.2	23.9	47.2	43.2	1.5	27.4	27.0	
170	M	50.1	4.3	22.3	27.8	52.0	49.0	2.0	30.6	28.6	
171	F	44.9	2.3	20.3	24.6	43.3	43.4	1.4	28.5	27.1	
172	F	35.0	4.6	17.4	17.6	56.4	54.4	1.6	23.9	22.3	
173	M	39.0	3.9	16.8	22.1	58.3	55.7	3.5	26.5	23.8	
174	M	35.9	3.5	17.4	18.5	58.5	55.8	2.9	26.6	23.7	
175	F	40.9	4.8	18.9	22.0	56.8	55.0	1.8	27.2	25.4	
176	F	41.9	3.1	19.0	22.9	52.4	50.3	2.2	29.8	27.6	
177	M	39.9	3.9	18.2	21.3	56.7	55.1	2.4	25.1	23.2	
178	M	40.5	3.8	17.5	23.0	55.1	53.5	1.6	25.3	23.7	
179	F	42.1	3.8	20.4	21.7	53.2	50.3	2.1	27.1	25.0	
180	F	39.1	4.1	18.9	20.2	52.6	50.8	1.5	25.8	24.3	

<sup>a</sup> Cell surface marker: + = marker present; - = marker absent  
 Mono & MΦ = Monocytes and Macrophages

<sup>b</sup>

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data  
 Spleen Lymphocyte Distribution

Group	Animal	Sex	Total FITC	Small Lymphocytes - Percent Cell Type							
				CD3+ <sup>a</sup>	NK	CD8+	CD3+	CD45R+	CD4+	CD45R+	Mono & MΦ <sup>b</sup>
				Total PE			Total PE	B Cells	Total PE	B Cells	CD45R-
HMDS (1000 ppm)	221	M	44.5	4.6	21.1	24.0	56.2	52.8	3.7	27.3	24.1
	222	M	46.0	4.3	21.9	24.1	52.8	49.8	2.5	28.3	25.8
	223	F	43.1	2.1	20.9	22.2	50.5	48.3	3.3	27.6	24.3
	224	F	44.1	4.5	20.4	23.7	49.1	46.2	3.0	27.6	24.6
	225	M	38.6	4.1	16.2	22.4	56.9	53.6	1.4	24.9	24.4
	226	M	41.0	3.8	19.5	21.5	53.6	53.5	1.1	27.0	25.9
	227	F	41.5	3.2	19.3	22.2	50.6	46.6	2.4	31.5	29.1
	228	F	41.9	2.6	20.1	21.8	50.6	47.6	2.1	28.6	26.5
	229	M	45.1	5.5	19.3	25.7	43.3	39.7	1.4	30.6	29.2
	230	M	40.4	4.6	18.1	22.3	56.2	54.2	1.9	28.1	26.2
	231	F	39.6	4.4	19.3	20.3	48.8	44.4	1.9	26.9	25.0
	232	F	38.5	4.6	18.1	20.4	53.0	50.8	2.3	27.6	25.3
	233	M	39.1	3.9	18.2	20.4	57.6	55.9	2.5	25.5	23.3
	234	M	33.9	4.9	15.2	18.7	58.8	56.8	1.8	24.8	23.0
	235	F	44.1	3.5	19.7	24.4	51.9	49.9	1.6	30.6	29.0
	236	F	42.1	2.5	20.1	22.0	51.4	48.7	1.9	29.0	27.1
	237	M	38.5	4.3	17.1	20.7	57.0	55.7	1.5	25.2	24.3
	238	M	39.7	4.8	18.2	21.5	56.1	54.1	1.8	25.8	24.0
	239	F	49.1	3.1	24.4	24.7	49.5	48.5	1.7	29.1	27.4
	240	F	38.4	3.9	18.0	20.4	54.4	51.7	2.2	25.5	23.3

<sup>a</sup> Cell surface marker: + = marker present; - = marker absent  
<sup>b</sup> Mono & MΦ = Monocytes and Macrophages

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
 Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix B - Individual Animal Data

Spleen Lymphocyte Distribution

Group	Animal	Sex	CD3+ <sup>a</sup> Total FITC	CD8+ NK	Small Lymphocytes - Percent Cell Type						
					CD3+ CD8-	Total PE	CD45R+ B Cells	CD45R+ CD45R-	CD4+ CD45R+	CD4+ Total FITC	Mono & MΦ <sup>b</sup>
HMDS (5000 ppm)	281	M	41.9	4.3	20.3	21.0	55.7	52.1	2.3	25.5	24.2
	282	M	42.9	6.2	21.2	21.7	54.0	51.4	2.0	26.1	24.1
	283	F	44.4	2.6	21.5	23.0	51.9	48.3	2.5	28.8	26.3
	284	F	45.1	4.2	21.5	23.6	52.3	50.1	2.3	26.5	24.2
	285	M	39.7	4.3	15.5	23.9	55.6	52.9	2.1	26.7	25.2
	286	M	38.2	4.2	18.2	20.0	54.9	52.3	2.1	27.0	24.9
	287	F	43.4	4.7	20.4	23.0	53.4	52.0	1.8	27.5	25.7
	288	F	48.5	4.0	24.0	24.5	45.6	43.2	1.9	30.0	28.1
	289	M	44.1	2.4	19.9	23.9	48.7	45.6	1.4	26.8	25.2
	290	M	35.7	4.0	16.5	19.2	56.2	53.8	2.3	26.1	23.8
	291	F	42.2	4.7	20.0	22.2	46.2	41.2	1.2	28.4	27.2
	292	F	46.7	3.2	21.8	24.9	51.2	49.6	2.0	29.5	27.5
	293	M	40.2	4.1	17.8	22.4	57.2	54.8	2.0	26.8	26.0
	294	M	41.8	2.6	19.5	22.3	57.6	54.5	2.2	27.5	25.3
	295	F	41.0	4.0	19.9	21.1	53.8	51.6	2.0	27.5	25.5
	296	F	38.1	3.6	18.0	20.1	56.0	54.1	1.9	26.3	24.4
	297	M	37.6	4.9	15.7	21.2	56.7	54.9	1.4	25.1	24.2
	298	M	39.7	4.3	18.2	21.4	56.5	55.2	1.9	24.4	22.5
	299	F	41.4	4.6	18.8	22.6	51.2	48.8	1.6	27.5	25.9
	300	F	38.7	5.7	17.5	21.2	52.0	50.5	1.1	26.7	25.6

<sup>a</sup> Cell surface marker: + = marker present; - = marker absent  
<sup>b</sup> Mono & MΦ = Monocytes and Macrophages

DC Study No. - 9027  
External No. - L08710-1

DC Report No. - 1999-I0000-47623  
Security - Internal

**Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats**

---

**Appendix C - Clinical Pathology Methods**

DC Study No. - 9027  
External No. - L08710-1

DC Report No. - 1999-I0000-47623  
Security - Internal

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous Whole-Body Inhalation Exposure in Fischer 344 Rats

Appendix C - Clinical Pathology Methods

**Clinical Chemistry: Beckman Synchron CX5 Methods.** The following list summarizes the routine clinical chemistries available, the method used, its journal reference, and a reagent source with its catalog number:

<u>Parameter</u>	<u>Method and Reference</u>	<u>Abbreviation</u>
Blood Urea Nitrogen	UV-Rate Tiffany TO, <i>et al.</i> : Clin. Chem. 18:829, 1972 Beckman Instruments, Inc. Cat. No. 442750	BUN
Cholesterol	Enzymatic Allain C.C., <i>et al.</i> : Clin. Chem 20:470, 1974 Beckman Instruments, Inc. Cat. No. 467825	CHOL
Creatinine	Rate-Jaffe Vasiliades, J.: Clin. Chem. Acta 22:1664, 1976 Beckman Instruments, Inc. Cat. No. 442760	CREA or CREAT
Glucose	Hexokinase-UV Gochman, N. <i>et al.</i> : Clin. Chem. 21:356, 1975 Beckman Instruments, Inc. Cat. No. 442640	GLU
Total Bilirubin	Jendrassik-Grof Malloy, H.T. and Evelyn, K.A.: J. Biol. Chem. 119:481, 1937 Jendrassik, L. and Grof, P.: Biochem. Z. 297:81, 1937 Beckman Instruments, Inc. Cat. No. 442745	TBIL
Alkaline Phosphatase	AACC Bowers GN, McComb, RB, Clin. Chem. 12:70, 1966 Beckman Instruments, Inc. Cat. No. 442670	ALP or ALK P
Alanine Aminotransferase	Henry Henry RJ, <i>et al.</i> : Amer. J. Clin. Path. 34:381, 1960 Beckman Instruments, Inc. Cat. No. 442620	ALT
Aspartate Aminotransferase	Henry Henry RJ, <i>et al.</i> : Amer. J. Clin. Path. 34:381, 1960 Beckman Instruments, Inc. Cat. No. 442665	AST
Total Protein	Biuret Hiller, A., Plazin, J., and Van Slyke, D.D.: J. Biol. Chem. 176:1401, 1948 Beckman Instruments, Inc. Cat. No. 442740	TP or T PRO

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Follow  
Whole-Body Inhalation Exposure in Fischer 344

Appendix C - Clinical Pathology Methods

**Hematology: Baker 9000 Hematology Analyzer.** The electronic counter (RBC), white blood cells (WBC), and platelets (PLT or PLAT) is based on conductive changes in the electrical conductivity between blood cells and the diluent in which they are suspended. Measurement of the mean corpuscular volume (MCV) is based on the amplitude of the current pulse. The hemoglobin (Hgb) is determined photometrically by the cyanide method. The hematocrit (HCT), mean corpuscular hemoglobin (MCH), and mean corpuscular hemoglobin concentration (MCHC) are calculated automatically according to the following formulas:

$$\text{HCT} = (\text{MCV} \times \text{RBC}) / 10 \quad \text{MCH} = (\text{Hgb} \times 10) / \text{RBC} \quad \text{MCHC} = \text{MCH} / \text{HCT}$$

<u>Parameter</u>	<u>Abbreviation</u>
Nucleated Red Blood Cells	NRBC
Mature Neutrophils	MAT NEU
Lymphocytes	LYMPH
Monocytes	MONO
Eosinophils	EOSIN
Basophils	BASO
Immature Neutrophils	IMM NEU

Appendix D - Protocol Deviations

---

DC Study No. - 9027      DC Report No. - 1999-10000-47623  
External No. - 108710-1      Security - Internal  
Immunotoxicity Assessment of Hexamethylidisiloxane (HMDS) Following a 28-Day Continuous  
Whole-Body Inhalation Exposure in Fischer 344 Rats

DC Study No. - 9027  
External No. - L08710-1

DC Report No. - 1999-I0000-47623  
Security - Internal

Immunotoxicity Assessment of Hexamethyldisiloxane (HMDS) Following a 28-Day Continuous Whole-Body Inhalation Exposure in Fischer 344 Rats

Page 1 of 1  
IITRI Project No. L08710SN1

**PROTOCOL DEVIATION NO.1**

**STUDY TITLE:** Immunotoxicity assessment of Hexamethyldisiloxane (HMDS)  
Following a 28-Day Continuous Whole-Body Inhalation  
Exposure in Fischer 344 Rats

**PROJECT/STUDY NUMBERS:** IITRI Project No. L08710; Study No. 1, DCC Study No. 9027

**DATE(S):** August 1, 1998

**PROTOCOL SECTION:** 11.b. Inhalation Exposure and Control Substance  
Administration: *Inhalation Exposure*

**DESCRIPTION OF DEVIATION:** Due to malfunctioning of the environmental monitoring system,  
the airflow measurements for chambers 2 & 3 (target  
concentration levels 50 and 200 ppm) were not available and  
therefore nominal concentrations for these chambers could not  
be calculated.

**IMPACT ON STUDY:** Since the chamber concentrations measured by the GC were  
close to the target levels, this deviation is expected to have no  
effect on the results of the study.

N. Rajendran  
N. Rajendran  
Science Advisor, Inhalation Technology

8/26/98  
Date

R.V. House  
R.V. House  
Study Director

8-27-98  
Date